

City of Manchester, N. H.



TO

N. H. Historical Society.

*Section*

*Thelf. No.*



*Presented by James L. Briggs,*

*July 24, 1887.*

*Compliments of*

*James E. Dodge,*

*City Auditor.*













HON. WILLIAM C. CLARKE.

MAYOR OF MANCHESTER, N. H., 1895 - 96 - 97 - 98.

# FIFTY-FIRST ANNUAL REPORT

OF THE

RECEIPTS AND EXPENDITURES

OF THE

# CITY OF MANCHESTER

NEW HAMPSHIRE

FOR THE FISCAL YEAR ENDING

DECEMBER 31, 1896.

TOGETHER WITH

OTHER ANNUAL REPORTS AND PAPERS RELATING  
TO THE AFFAIRS OF THE CITY.



MANCHESTER:

PRINTED BY THE JOHN B. CLARKE CO.

1897.



# MANCHESTER CITY GOVERNMENT.

1896.

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## Mayor.

WILLIAM C. CLARKE.....Office, City Hall

Chosen at biennial election in November, 1894. Salary, \$1,800 per annum, payable quarterly. (Act of June, 1848, section 1. Chapter 223, Laws of 1883. Public Statutes, chapter 47.) Telephone at house and office.

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## Aldermen.

Act of June, 1848, section 1. Public Statutes, chapter 48.

Ward 1. Gardner K. Browning, 55 Stark Corporation, Canal street.

Ward 2. George E. Heath, River road north, at Hooksett line.

Ward 3. George W. Reed, 483 Chestnut street.

Ward 4. Howard C. Holt, 411 Amherst street.

Ward 5. Richard J. Barry, 240 Lake avenue.

Ward 6. Frank H. Libbey, Nutt road.

Ward 7. Johann A. Graf, 10 Middle street.

Ward 8. Christian L. Wolf, 36 Clinton street.

Ward 9. Frank T. Provost, 21 Amory street.

**President of the Common Council.**

John T. Gott, Mammoth road.

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**Members of the Common Council.**

Act of June, 1848, section 1. Public Statutes, chapter 48.

**WARD 1.**

Charles E. Blanchard, 53 Market street.

William Watts, 31 Stark Corporation, Mechanic street.

Carl E. Rydin, 28 Stark Corporation, Mechanic street.

**WARD 2.**

Eben Carr, Union, near River road north.

Ossian D. Knox, 757 Chestnut street.

John A. Lindquist, 48 Blodget street.

**WARD 3.**

Clarence E. Rose, 337 Pearl street.

Joseph O. Tremblay, 18 Malvern street.

William F. Elliott, 194 Concord street.

**WARD 4.**

George H. Phinney, 133 Hanover street.

George E. Richards, 12 Ash street.

Jules Deschenes, 323 Concord street.

**WARD 5.**

William J. Allen, 181 Lake avenue.

Michael R. Sullivan, 296 Pine street.

Daniel A. Murphy, 103 East Spruce street.



## WARD 6.

John T. Gott, Mammoth road.

Charles Hazen, 436 Central street.

B. Frank Welch, 14 Elm street.

## WARD 7.

Norris P. Colby, 17 Middle street.

Samuel F. Davis, 57 West Merrimack street.

Robert Morrow, 66 Amoskeag Corporation, West Merrimack street.

## WARD 8.

Edward F. Scheer, 135 Milford street.

John W. Wilson, 215 Turner street.

William R. Blakely, 162 Blaine street.

## WARD 9.

John Gildard, 646 Main street.

Stephen P. Martel, Stark Mills.

Richard F. Schindler, 294 Beauport street.

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Clerk of Common Council.

George L. Stearns, 58 Myrtle street.

Salary, \$200. (General Laws, chapter 46, sections 7-9. City Laws and Ordinances, page 33, chapter 6, section 11.)

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City Clerk.

Nathan P. Kidder.....Office, City Hall

Salary, \$900. The city clerk, in addition to his salary, is in receipt of fees as registrar of births, marriages, and deaths, and as

a recording officer for record of mortgages on personal property, of attachments of real estate, of partnerships and assignments, and for recording various other legal papers. He also receives fees for issuing dog licenses, billiard and bowling alley licenses, for certifying records, and for various other matters.

These fees are established by the state legislature under various laws, and are estimated to be between \$2,100 and \$2,500 per annum. Chosen in convention of City Councils in January, annually. (Charter, section 22. Public Statutes, chapter 50. Act of 1849. City Laws and Ordinances, pages 42, 43, 68, 72, 73, 84, 86, 89, 114, 122, 123, 124, 166, 189.) Residence, 313 Manchester street.

### City Auditor.

James E. Dodge.....Office, City Hall

Salary, \$1,200. Appointed by Mayor and approved by Board of Aldermen, in January, annually. (Laws of 1889, chapter 287. City Ordinances, pages 44, 71, 83-88, 173.) Residence, River road north.

### Auditor's Clerk.

Lizzie M. Cogswell.....Auditor's Office, City Hall

Residence, 1589 Elm street.

### City Treasurer.

Fred L. Allen.....Office, City Hall

Salary, \$1,200. Elected in convention of City Councils in January, annually. (Charter, section 23. Act of 1856, section 4. General Laws, chapter 48, sections 3, 4. Act of 1859, section 4. City Laws and Ordinances, pages 36, 86-89, 170, 172.)

### Treasurer's Clerk.

Blanche E. Bullock.....Treasurer's Office, City Hall

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### Collector of Taxes.

George E. Morrill.....Office, City Hall

Salary, \$1,650 and fees. Elected by Mayor and Aldermen before May 1, annually. (Act of July, 1851. Act of June, 1859, section 6. Public Statutes, chapter 43. City Laws and Ordinances, chapter 33.) Residence, 740 Chestnut street.

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### Deputy Collector of Taxes.

Edwin C. Paul.....Collector's Office, City Hall

Paid by collector. Appointed by tax collector with approval of Mayor and Aldermen. (City Laws and Ordinances, chapter 33, section 3.) Residence, 416 Central street.

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### City Solicitor.

Edwin F. Jones.....Office, Patten Block, 936 Elm street

Salary, \$800. Elected in convention of City Councils, in January, annually. (City Laws and Ordinances, chapters 4, 6, pages 70, 72.) Residence, 15 High street.

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### City Messenger.

John A. Barker.....Office, City Hall

Salary, \$700. Elected in convention of City Councils in January, annually. (City Laws and Ordinances, chapters 4, 6.) Residence, 49 Appleton street.

## Joint Standing Committees.

*On Finance.*—The Mayor and Alderman Graf; Councilmen Knox, Colby, and Hazen.

*On Accounts.*—Aldermen Browning and Provost; Councilmen Watts, Blakely, and W. J. Allen. (Meet Wednesday succeeding the 24th of each month. All bills must be left at the city auditor's office, properly approved, not later than the 20th of each month.)

*On Claims.*—Aldermen Libbey and Reed; Councilmen Rose, Martel, and Wilson. (Meets third Friday in each month.)

*On Streets.*—Aldermen Reed and Heath; Councilmen Tremblay, Scheer, and Hazen.

*On Sewers and Drains.*—Aldermen Wolf and Heath; Councilmen Phinney, Sullivan, and Lindquist.

*On Lighting Streets.*—Aldermen Browning and Wolf; Councilmen Deschenes, Carr, and Murphy.

*On Lands and Buildings.*—Aldermen Graf and Barry; Councilmen Welch, Davis, and Richards.

*On Fire Department.*—Aldermen Libbey and Holt; Councilmen Tremblay, Blanchard, and Welch.

*On Commons and Cemeteries.*—Aldermen Graf and Holt; Councilmen Blanchard, Gildard, and Carr.

*On Public Instruction.*—Aldermen Heath and Provost; Councilmen Lindquist, W. J. Allen, and Morrow.

*On Water-Works.*—Aldermen Reed and Holt; Councilmen Wilson, Watts, and Davis.

*On City Farm.*—Aldermen Barry and Reed; Councilmen Elliott, Rydin, and Gildard.

*On House of Correction.*—Aldermen Reed and Barry; Councilmen Murphy, W. J. Allen, and Schindler.

*On Military Affairs.*—Aldermen Provost and Browning; Councilmen Rose, Scheer, and M. R. Sullivan.

*On Public Health.*—Aldermen Holt and Wolf; Councilmen Martel, Richards, and Colby.

## Standing Committees.

## BOARD OF ALDERMEN.

*On Enrollment.*—Aldermen Reed and Barry.

*On Bills on Second Reading.*—Aldermen Browning and Wolf.

*On Market.*—Aldermen Holt and Libbey.

*On Marshal's Accounts.*—Aldermen Heath and Provost.

*On Licenses.*—Aldermen Provost and Graf.

*On Setting Trees.*—Aldermen Libbey and Barry.

*On Special Police.*—Aldermen Holt and Browning.

## COMMON COUNCIL.

*On Election Returns.*—Councilmen Phinney, Watts, and Murphy.

*On Bills on Second Reading.*—Councilmen Knox, Elliott, and Hazen.

*On Enrollment.*—Councilmen Rydin, Carr, and Deschenes.

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City Physician.

Frederick Perkins.....Office, 895 Elm street

Salary, \$600. Elected by City Councils in convention in January, annually. (Laws of 1870, chapter 99. City Ordinances, chapter 9, sections 29, 30.) Residence, Clark street, corner Chestnut.

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City Engineer.

Winfred H. Bennett.....Office, City Hall

Salary, \$1,200. Chosen by City Councils in convention in January, annually. (City Ordinances, chapter 6, sections 33, 34.)

### Water Commissioners.

(Chapter 70, Laws of 1871. City Ordinances, chapter 36, and Laws of 1891, chapter 26, page 319, act approved March 31, 1891. Chapter 183, Laws of 1893.) One commissioner elected annually by Mayor and Aldermen, in the month of September, for a term of six years. Office at Court House, corner Franklin and West Merrimack streets. Telephone at office and at pumping station.

The Mayor, *ex-officio*.

Charles H. Manning, term expires January, 1901.

Andrew C. Wallace, term expires January, 1900.

Alpheus Gay, term expires January, 1899.

Henry Chandler, term expires January, 1898.

Harry E. Parker, term expires January, 1897.

Charles T. Means, term expires January, 1902.

Alpheus Gay, chairman.

James A. Weston, clerk. Salary, \$100. Chosen by the board of commissioners.

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### Superintendent of Water-Works.

Charles K. Walker. . Office, Court House, Franklin street

Salary, \$2,000. Chosen by water commissioners annually.  
Residence, 68 South Main street, West Manchester.

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### Clerk of the Water-Works.

Arthur E. Stearns. . Office, Court House, Franklin street

Salary, \$1,500. Chosen by water commissioners annually.  
Residence, 421 Hanover street.

**Engineer at Old Pumping Station.**

Josiah Laselle. Salary, \$700, rent, fuel, and use of land.

Chosen by water commissioners annually.

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**Engineer at New Pumping Station.**

Henry A. Donaway. Salary, \$2.50 per day, rent, and fuel.

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**Justice of the Police Court.**

Isaac L. Heath, court room at Police Station, corner Manchester and Chestnut streets.

Salary, \$1,500. Appointed by the Governor, with the advice of the Council. (General Laws, chapter 215; chapter 163, sections 17, 18, 19, of the Laws of 1878, as amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.)

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**Associate Justice of the Police Court.**

George W. Prescott. Salary, \$300 per annum.

Appointed by the Governor, with the advice of the Council. (Chapter 215, General Laws, sections 2-14. Public Statutes, chapter 211. Chapter 296, Laws of 1893.)

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**Clerk of the Police Court.**

John C. Bickford. Salary, \$600.

Appointed by the justice of the police court. (Chapter 163, sections 17-19, General Laws, amended by chapter 236, Laws of 1881. Public Statutes, chapter 211.) Residence, 15 Ash street.

## Police.

The members of the police are appointed by the Police Commissioners, and hold their commissions during good behavior. They are, by virtue of their appointment, constables and conservators of the peace, and their jurisdiction extends throughout the city. (Chapter 253, section 5, General Laws; chapter 303, Laws of 1887; chapter 202, Laws of 1893.) Police station, at the corner of Chestnut and Manchester streets.

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### Police Commissioners.

See chapter 202, Laws 1893.

Noah S. Clark, clerk, term expires January, 1898.

Frank P. Carpenter, term expires January, 1902.

Harry E. Loveren, chairman, term expires January, 1900.

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### Chief of Police.

Michael J. Healy.....Office at Police Station

Salary, \$900. Residence, 304 Central street. Telephone at house and office.

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### Deputy Chief of Police.

John F. Cassidy.....Office at Police Station

Salary, \$800. Residence, 415 Manchester street.

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### Captain of the Watch.

Thomas E. Steele. Salary, \$2.50 per day. Residence, 56 Nashua street.



**Sergeant.**

William M. Caldwell. Salary, \$2.50 per day. Residence, 269 Merrimack street.

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**Patrolmen.**

SALARY, \$2.25 PER DAY.

Randall W. Bean, 85 Ash street.  
Frank E. Bourrassa, 552 Lincoln street.  
Lucius M. Rollins, 437 Laurel street.  
Olaf Ring, 330 Central street.  
John T. O'Dowd, 311 East Spruce street.  
Florence Sullivan, 340 Cedar street.  
Henry A. Burns, 451 Manchester street.  
Theodore Flodin, 21 Jane street.  
George A. Lovejoy, 99 Orange street.  
John D. Healy, 172 East Spruce street.  
Frank W. Marden, 423 Belmont street.  
Oscar R. Poehlman, 386 Dubuque street.  
Albert Russell, 352 Amherst street.  
Leon E. Magoon, 355 East Spruce street.  
Joseph Archambeault, 64 Merrimack street.  
James S. Butler, 41 Cedar street.  
John C. Badger, 325 Amherst street.  
Peter Callaghan, 470 East Spruce street.  
John J. Connor, 155 Pine street.  
Frank P. Moore, 47 Elm street.  
John T. Welch, 1263 Elm street.  
John T. Nixon, 314 Lake avenue.  
Elmer E. Somers, 336 Lake avenue.  
Levi J. Proctor, Candia road corner Massabesic.  
Joseph A. Farrell, 323 East Spruce street.  
James S. Hampston, 179 Central street.

## Janitor of Station.

Frank P. Wiggin. \$1.75 per day. Residence, 255 Auburn street.

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Matron.

Miss A. B. Brown. \$415 per annum. Residence, 329 Chestnut street.

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School Committee.

Chosen at the biennial election in November, 1894; Mayor and president of the Common Council members *ex-officio*. The board of school committee choose the clerk of the board, the superintendent of public instruction, the truant officer, and the teachers in the public schools, and determine their salaries. They have charge of the repairs of schoolhouses, to a limited extent, and the purchase of free text-books and other supplies, and are limited by the appropriations of the City Councils. The salary of the committee is \$10 each..

## WARD 1.

Walter B. Heath.

Elliott C. Lambert.

## WARD 2.

Augustus P. Horne.

Charles H. Manning.

## WARD 3.

George D. Towne.

Louis E. Phelps.

## WARD 4.

Charles M. Floyd.

Nathaniel L. Colby.

## WARD 5.

James P. Slattery.

Harry J. Woods.

## WARD 6.

Harry I. Dodge.

Herbert E. Richardson.

## WARD 7.

Marshall P. Hall.\*  
Fred W. Pillsbury.

Edward B. Woodbury.

## WARD 8.

Luther C. Baldwin.

Josiah G. Dearborn.

## WARD 9.

Robert E. Walsh.

Jeremiah Sullivan.

William C. Clarke, *ex-officio* chairman.John T. Gott, *ex-officio*.

George D. Towne, vice-chairman.

Edward B. Woodbury, clerk.

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Superintendent of Public Instruction.

William E. Buck.....Office, City Hall

Salary, \$2,300. Residence, 324 Myrtle street.

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Superintendent's Clerk.

Fannie L. Sanborn.....Residence, 161 Hanover street

Salary, \$500.

\* Deceased.

**Truant Officer.**

Curtis W. Davis.....Office, City Hall  
 Salary, \$750. Residence, 849 Chestnut street.

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**Assessors.**

One assessor from each ward chosen at the biennial election in November. Paid \$2.50 each for each day while employed in the assessment and abatement of taxes. Office, City Hall. (Charter, section 25. Public Statutes, chapter 48, section 1; chapter 50, section 4; chapter 49, sections 10, 11, 12. City Ordinances, chapter 6, section 26.) Assistant assessors, not exceeding six, chosen by the city councils.

- Ward 1. Henry Lewis, 32 Amoskeag Corporation.
  - Ward 2. John E. Stearns, 58 Myrtle street.
  - Ward 3. David O. Fernald, 384 Lowell street.
  - Ward 4. Harrison D. Lord, 387 Hanover street.
  - Ward 5. George F. Sheehan, 85 Cedar street.
  - Ward 6. George H. Dudley, 159 Laurel street.
  - Ward 7. William T. Rowell, 14 Manchester Corporation.
  - Ward 8. Frank N. Daniels, 137 Milford street.
  - Ward 9. Julius Wiesner, 16 Rimmon street.
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**CHAIRMAN OF ASSESSORS.**

David O. Fernald.....Office, City Hall

**CLERK OF ASSESSORS.**

George H. Dudley.....Office, City Hall

### Inspectors of Check-Lists.

One in each ward, chosen at the biennial election in November. Compensation, \$2.25 per day for each day actually employed. Office, City Hall. (Laws of 1878, chapter 163, sections 5, 6, 7, 9, 10, 11, 12, 13, 14, 16, and City Ordinances, chapter 14, section 9.)

- Ward 1. George C. Kemp, 40 Machine Shop block.
- Ward 2. Charles B. Tucker, 777 Union street.
- Ward 3. William B. Corey, 88 Pearl street.
- Ward 4. Samuel J. Lord, 387 Hanover street.
- Ward 5. Patrick Daley, 188 Chestnut street.
- Ward 6. Albert J. Peaslee, Cohas avenue, near Water-Works.
- Ward 7. Joseph A. Foster, 42 Amoskeag Corporation.
- Ward 8. Charles C. Tinkham, 9 Parker avenue.
- Ward 9. John B. Bourque, 22 Wayne street.

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### Overseers of the Poor.

One in each ward, chosen at biennial election in November. The Mayor is a member *ex-officio*. Compensation, \$25 per annum, each; clerk of the board, \$100 per annum, determined by City Ordinances, chapter 14, section 18, as amended by Ordinance of August 5, 1890. Meet third Wednesday of each month in City Hall building.

- Ward 1. William H. Maxwell, clerk, 20 Amoskeag Corporation, Stark street.
- Ward 2. Thomas L. Quimby, railroad station, foot of West Salmon street.
- Ward 3. Benjamin F. Garland, 28 Linden street.
- Ward 4. George S. Holmes, 296 Hanover street.
- Ward 5. Patrick Costello, 106 East Spruce street.
- Ward 6. Charles Francis, Candia road, East Manchester.

Ward 7. William Marshall, 72 Amoskeag Corporation, West Merrimack.

Ward 8. Charles S. McKean, 495 Granite street.

Ward 9. Moise Bessette, 322 Rimmon street.

William C. Clarke, *ex-officio*, Office, City Hall.

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### Board of Health.

(City Ordinances, chapter 14, section 10, as amended. Laws of 1885, chapter 165; Laws of 1887, chapter 227; Public Statutes, chapters 108, 109, 110.) One member appointed by the Mayor in January of each year, to hold office for a term of three years. Salary, \$200 each per annum. Office, Court House, West Merrimack, corner of Franklin street.

Clarence W. Downing, M. D. Term expires first Monday in February, 1896. Reappointed.

William K. Robbins, 290 McGregor. Term expires first Monday in February, 1898.

Cornelius F. Starr, M. D., 49 Manchester street. Term expires first Monday in February, 1897. Resigned March, 1896.

William J. Starr, 1008 Elm street. Term expires first Monday in February, 1897.

Herbert S. Clough, sanitary inspector, Hanover-street road. Office, Court House, Merrimack, corner of Franklin street.

John F. Looney, sanitary inspector, 164 Auburn street. Office, Court House, Merrimack, corner of Franklin street.

Richard J. Barry, sanitary inspector. Office, Court House, Merrimack, corner of Franklin street. Residence, 232 Lake avenue.

### Fire Department.

The chief engineer and four assistant engineers are chosen annually in the month of January, by a majority of the City Councils in convention. The salary of the chief engineer is \$1,300 per annum; the assistant engineers, each \$125 per annum. They exercise the powers and perform the duties of firewards. The said engineers constitute the board of engineers, and elect a clerk whose compensation is \$25 a year. The annual compensation of the call members of the several hook-and-ladder, hose, steam fire engine, and chemical engine companies is as follows: Captain, each \$165; lieutenants, each \$160; clerks, each \$160; assistant engineers, each \$155; all other members, each \$150; payable in equal semi-annual payments, on the first of January and July. (Laws of 1870, chapter 99. General Laws, chapter 106. City Ordinances, chapters 6 and 12.) Six members are permanently employed as engineers at \$76.25 per month each, and twenty-one as drivers at 68.33 $\frac{1}{3}$  per month each, six other permanent men at \$65 per month each, and receive no compensation as call members. Members and officers of each company are appointed by the board of engineers.

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### Chief Engineer.

Thomas W. Lane. . . . Office, Central Station, Vine street.

Residence, 1937 Elm street. Telephone at house and office.

Fred S. Bean, clerk, 102 Orange street.

Ruel G. Manning, 52 Douglas street, West Manchester.

Eugene S. Whitney, River road north, corner West North street.

Clarence R. Merrill, 418 Merrimack street.

For further information see chief engineer's report.

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### Trustees of City Library.

(Laws of 1854, chapter 1588. See contract with Manchester Athenaeum, printed on pages 107 and 108 of City Report for fiscal

year ending January 31, 1855.) Board of seven trustees, one of whom is elected by Aldermen and board of trustees in joint convention in September, annually. Term of service, seven years; no salary. Two additional trustees, Mayor, and president of Common Council, *ex-officio*.

Frank P. Carpenter, term expires October 1, 1902, Elm, corner West North street.

Nathan P. Hunt, term expires October 1, 1901, 774 Union street.

Herman F. Straw, term expires October 1, 1900, 607 Chestnut street.

Walter M. Parker, term expires October 1, 1899, West Webster street, corner Elm.

Isaac W. Smith, term expires October 1, 1898, 1855 Elm street.

Moody Currier, term expires October 1, 1897, Ash street, corner Myrtle.

C. D. McDuffie, term expires October 1, 1903, Ash street, corner Myrtle.

William C. Clarke, *ex-officio*.

John T. Gott, *ex-officio*.

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### Board of Street and Park Commissioners.

The City Councils in joint convention, biennially, elect one member of said board for a term of six years. Not more than two members can be of the same political party. Said board, consisting of three members, has full charge, management, and control of the building, constructing, repairing, and maintaining of all the streets, highways, lanes, sidewalks, bridges, and public sewers and drains, and public parks and commons. (See Laws of 1893, chapter 264.) Office, City Hall building. Open from 8 to 12 A. M., 2 to 5 P. M. Regular meeting of the board at



2 o'clock P. M. each day. Salary of each member, \$600 per year, payable quarterly, and each are allowed \$150 annually for horse hire.

George H. Stearns, clerk, term expires 1898.

Leonard P. Reynolds, term expires 1896.

Horace P. Simpson, chairman, term expires 1900.

Byron Worthen, term expires 1902.

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### Assistant Clerk.

Julia F. Stearns.

### City Weigher.

Elected annually in convention of City Councils. Salary, \$400 per annum; all fees for weighing returned monthly to city treasurer with sworn statement. Stationed at city scales on Franklin street.

Asa B. Eaton. Office, city scales; residence, 23 Appleton street.

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### Sealer of Weights and Measures.

Harry C. Blanchard.

Elected annually in January by City Councils in convention. Paid by fees. (Section 25, chapter 43, Public Statutes, and chapter 125, Public Statutes.)

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### Fish and Game Wardens.

(Public Statutes, chapter 130.) Elected by City Councils in convention.

John C. Higgins, 143 Orange street.

George A. Clark, 304 Central street.

Robert Snyder.

Harry P. Ray, River road north.

C. R. Hodge, 574 Hall street.

Henry C. Wallace, 64 Hanover street.

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### Trustees of Cemeteries.

(City Ordinances, chapter 39, sections 1, 2, 3, 4.) Two trustees elected by City Councils in convention in January, annually, for the term of four years. Sub-trustees appointed by board of trustees.

John F. Frost, 11 Manchester Corporation, term expires January, 1899.

William H. Huse, Mammoth road, term expires 1899.

John L. Sanborn, 25 Market street, term expires 1898.

Bushrod W. Hill, 299 Hanover street, term expires 1898.

Stillman P. Cannon, 43 Elm street, term expires 1897.

James E. Bailey, Goffstown road near Front street, term expires 1897.

Edwin F. Jones, 15 High street, term expires January, 1900.

John P. Young, 346 Merrimack street, term expires January, 1900.

Fred L. Allen, clerk and treasurer, 6 Linden street.

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### Sub-Trustees of Cemeteries.

#### VALLEY CEMETERY.

Alderman Howard C. Holt, 411 Amherst street.

Councilman John Gildard, 646 Main street.

John L. Sanborn, 25 Market street.

Bushrod W. Hill, 299 Hanover street.

Stillman P. Cannon, 43 Elm street.

## PINE GROVE CEMETERY.

Alderman J. Adam Graf, 10 Middle street.  
 Councilman Charles E. Blanchard, 53 Market street.  
 John F. Frost, 11 Manchester Corporation.  
 John P. Young, 346 Merrimack street.  
 Edwin F. Jones, 15 High street.

## AMOSKEAG CEMETERY.

Councilman Eben Carr, North Union street.  
 James E. Bailey, Goffstown road near Front street.  
 William H. Huse, Mammoth road, East Manchester.

## SUPERINTENDENT OF PINE GROVE CEMETERY.

Byron A. Stearns. Office and residence at the cemetery. Telephone.

## SUPERINTENDENT OF VALLEY CEMETERY.

Charles H. G. Foss. Office at the cemetery; residence, 267 Lake avenue.

## TRUSTEES OF CEMETERY FUNDS.

Charles H. Bartlett, 25 High street.  
 Otis Barton, 122 Orange street.  
 William C. Clarke, *ex-officio*.

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 Inspector of Milk.

Edward C. Smith.....Office, 1277 Elm street

Residence, 97 Sagamore street. Term expires February 1, annually. (Public Statutes, chapter 127.) Appointed by Mayor and Aldermen. Salary, \$300 per annum.

### Inspector of Buildings.

Thomas W. Lane.....Office at Central Fire Station

Residence, 1937 Elm street. Appointed by Board of Mayor and Aldermen, biennially, in February. Salary, \$100 per annum. (City Ordinances, chapter 15. Laws of 1883, chapter 94. Public Statutes, page 170.) Telephone at house and office.

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### Inspectors of Oil.

Joseph B. Baril.....99 Bridge street

John Cayzer.....383 Granite street

(Public Statutes, chapter 129, sections 25-34. City Ordinances, chapter 25.) Paid by fees,  $\frac{1}{4}$  of 1 per cent per gallon.

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### Moderators.

Elected biennially. (General Laws, chapter 31, sections 3, 9; chapter 36, section 9; chapter 44, section 7. City Ordinances, page 18. See Public Statutes relating to towns and cities.)

Ward 1. Abial W. Eastman, 24 Amoskeag Corporation, Stark street.

Ward 2. Lyman W. Colby, 753 Chestnut street.

Ward 3. Arthur S. Bunton, 27 Walnut street.

Ward 4. George H. Warren, 461 Hanover street.

Ward 5. John B. Rodgers, 240 Lake avenue.

Ward 6. Herbert S. Clough, 45 Middle street.

Ward 7. Frank A. Dockham, 18 Pleasant street.

Ward 8. Robert E. McKean, 50 Main street.

Ward 9. John T. Hannigan, 159 Cartier street.

### Ward Clerks.

Elected biennially. (General Laws, chapter 44, sections 10, 12. City Ordinances, page 18. Public Statutes relating to towns and cities.)

Ward 1. Frank X. Foster, 1382 Elm street.

Ward 2. Charles A. Allen, 68 Liberty street.

Ward 3. John H. Hayes, 106 Arlington street.

Ward 4. Joseph W. Abbott, 256 Manchester street.

Ward 5. Martin J. Whalen, 60 Cedar street.

Ward 6. Arthur B. Dickey, 39 Elm street.

Ward 7. Charles E. Bartlett, 68 West Merrimack street.

Ward 8. Fred L. Hodgman, 363 South Main street.

Ward 9. Frank I. Lessard, 320 Dubuque street.

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### Selectmen.

Elected biennially. (General Laws, chapter 1, section 27; chapter 12, section 6; chapter 40, sections 2, 3; chapter 109, section 27; chapter 213, section 1. City Ordinances, page 18. Public Statutes relating to towns and cities.)

#### WARD 1.

John H. Wales, Jr., 19 Machine Shop block, Water street.

Olaf H. Nyberg, 27 Machine Shop block, Canal street.

Alexander Hanna, 22 Boyden street.

#### WARD 2.

Daniel G. Andrews, 777 Union street.

William H. Maxwell, Goffstown road.

Fred K. Ramsey, Webster, corner River road.

## WARD 3.

George N. Baker, 78 Ashland street.

John Cronin, 284 Bridge street.

## WARD 4.

Charles H. Bartlett, 251 Concord street.

Wilfred Beauchemin, 525 Beech street.

Charles B. Clarkson, 249 Concord street.

## WARD 5.

Thomas A. Foley, 156 East Spruce street.

Patrick Maloney, 177 East Spruce street.

Robert F. Murray, 176 East Spruce street.

## WARD 6.

George M. Bean, Massabesic road.

Harrison W. Haselton, 261 Laurel street.

Edward P. Cogswell, Candia road.

## WARD 7.

Hanson R. Armstrong, 58 Amoskeag Corporation,  
West Merrimack street.

Melvin M. Halen, Hall road.

Robert Leggett, 50 Amoskeag Corporation, Canal  
street.

## WARD 8.

William H. Marshall, 265 Douglas street.

Hervey Stratton, 32 Quincy street.

George W. Flint, 101 Milford street.

WARD 9.

Albert Oliver, 309 Bartlett street.

Martin J. Rafferty, 450 Beauport street.

Joseph Trahan, 508 Dubuque street.





REPORT  
OF THE  
BOARD OF WATER COMMISSIONERS.



# REPORT

## OF THE

### BOARD OF WATER COMMISSIONERS.

*To the City Councils of the City of Manchester:*

GENTLEMEN,—The Manchester Board of Water Commissioners herewith submit their twenty-fifth annual report to your honorable body for the year ending December 31, 1896, with the report of the superintendent during the same period, to which reference is made and which indicates the gratifying results of the service connected with this department.

The receipts and expenditures for the year have been as follows:

Balance unexpended December 31, 1895.....	\$42,720.01
Received from water rentals and miscellaneous.....	128,907.03
<b>Total.....</b>	<b>\$171,627.04</b>
Paid interest on water bonds.....	\$41,446.00
current expenses and repairs	30,894.36
construction.....	65,099.32
hydrant rentals set aside for	
sinking fund.....	16,800.00
	<u>\$154,239.68</u>
Balance unexpended.....	\$17,387.36

The premium received by the city on \$100,000 of water bonds refunded at four per cent, amounting to \$6,248.00, has not been credited to the water-works department, making total premium on bonds sold, which has not been credited to this department, \$24,600.56.

Your commissioners have continued acquiring possession of lands bordering on Lake Massabesic, and during the year have secured 10,041 lineal feet.

In a portion of this purchase is included lands in Hillsborough county which were condemned by the city and damages assessed by the board of county commissioners, and which have since been secured to the city at several thousand dollars less than the amount awarded by them.

In the Devonshire Mills' suit against the city there has been but little progress made during the year.

Aside from the damage resulting from the freshet in the Merrimack river in March, 1896, no serious accident or losses caused by defective pipes have occurred during the year.

The city having accepted the terms of the bequest of the late James A. Weston, a contract has been awarded for the construction of an observatory on Oak Hill in Derbyfield Park, near the new reservoir.

Its location commands an extensive view of the city and surrounding country, and will be a point of interest to our own people as well as to those who may be visiting our city.

Universal harmony has prevailed among the members of the board during its deliberations, and the execution of its plans carried forward with promptness.

In its negotiations with the various parties with whom the board has had dealings, in connection with the purchase of lands bordering on the Lake, the utmost cour-

tesy and friendliness has been shown by all those with whom it has had business relations.

Respectfully submitted.

WILLIAM C. CLARKE, *ex-officio*,

ALPHEUS GAY,

HENRY CHANDLER,

ANDREW C. WALLACE,

CHARLES H. MANNING,

CHARLES T. MEANS,

HARRY E. PARKER,

*Water Commissioners.*

JANUARY 1, 1897.

## SUPERINTENDENT'S REPORT.

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*To the Honorable Board of Water Commissioners of the City of Manchester:*

The report of the superintendent for the year ending December 31, 1896, is herewith respectfully submitted:

### MASSABESIC LAKE.

The water in the lake has been low throughout the summer and fall. The lowest point reached was September 1, when it stood twenty-six inches below the dam. This was four inches higher than the lowest point in 1894.

The water now stands twenty inches below the dam, which is three feet and four inches lower than last year at this time.

October 12 it was four feet below the dam at the head of the canal.

In the month of October, we pumped by steam into the low service reservoir three different times, to assist the low service pumps in filling it. When the water is so very low, it takes the head from the wheel, and requires more gallons to pump up one; also more hours of pumping, which is a loss of water to the lake. When the lake is full, the pumps run twenty-two strokes per minute; while in low water it is from sixteen to eighteen strokes. The Davidson pump delivers into the reservoir 152 gallons each stroke; the R. D. Wood pump, 136 gallons each stroke.

These pumps are in good condition. The man in charge keeps them in good working order. Pumping fifteen to nineteen hours out of twenty-four requires almost constant care.

As will be seen by the following table, more water was pumped at the old station this year than in 1895.

..

## AMOUNT PUMPED INTO THE LOW SERVICE RESERVOIR.

MONTHS.		Kind of pump.	No. hours work.	Average strokes.	Total num-ber strokes.	No. gallons each pump.	Total num-ber each month.	Daily aver- age.
January.....	Davidson.....	460 h. 30 m.	21.35	500,939	89,281,282	89,281,282	89,281,282	2,880,041
February.....	".....	405 " 40 "	21.33	571,518	87,346,926	87,346,926	87,346,926	3,011,963
March.....	".....	477 " 40 "	21.85	625,575	96,046,200	96,046,200	96,046,200	3,098,264
April.....	".....	411 " 40 "	22.29	534,800	81,289,600	81,289,600	81,289,600	2,805,372
".....	".....	16 " 40 "	22.68	21,777	2,874,564	2,874,564	2,874,564	
May.....	R. D. Wood.....	489 " 35 "	21.38	628,651	93,554,952	93,554,952	93,554,952	3,135,814
".....	Davidson.....	10 " 25 "	20.06	12,540	1,655,280	1,655,280	1,655,280	
".....	R. D. Wood.....	416 " 30 "	21.25	531,018	80,714,736	80,714,736	80,714,736	2,690,491
June.....	Davidson.....	528 " 20 "	20.49	656,939	99,853,728	99,853,728	99,853,728	3,259,699
".....	".....	6 " 40 "	21.86	7,868	1,195,336	1,195,336	1,195,336	
".....	R. D. Wood.....	353 " 40 "	19.84	541,125	82,251,000	82,251,000	82,251,000	2,653,258
August.....	Davidson.....	424 " 30 "	18.54	481,984	73,261,568	73,261,568	73,261,568	2,442,052
September.....	".....	506 " 30 "	18.48	560,392	85,179,584	85,179,584	85,179,584	2,747,728
October.....	".....	450 " 19.08	19.08	515,587	78,369,224	78,369,224	78,369,224	2,612,307
November.....	".....	458 " 15 "	19.07	524,409	79,713,208	79,713,208	79,713,208	2,571,393
December.....	".....	5,414 h. 35 m.	20.66	6,805,122	1,034,588,788	1,034,588,788	1,034,588,788	2,832,570



## PUMPING RECORD, HIGH SERVICE, 1896.

MONTHS.	No. days or parts of days pumping.		Total pump- ing time per month.		Total number of strokes.	Average strokes per minute.	Coal in pounds.				No. of gallons pumped.	Gallons pumped per pound coal.	Dynamic head.
	Total pump- ing time per month.		Raising steam and bank'g.				Pumping g.	Ashes and clinkers.	Total coal.				
	Hours.	Min.											
January.....	10	86	00	218,860	42.3	13,099	28,747	4,935	41,846	12,102,829	425	269	
February.....	10	89	30	229,019	42.7	11,225	29,992	4,944	41,217	12,654,317	422	269	
March.....	12	105	00	270,109	42.9	10,997	36,345	5,875	47,342	14,913,684	408	269	
April.....	10	81	30	210,187	43.2	7,726	28,241	4,568	35,967	11,623,245	412	269	
May.....	12	107	35	277,867	43.0	9,071	38,098	5,808	47,169	15,365,332	401	271	
June.....	11	98	10	255,384	43.4	8,340	33,746	4,070	42,086	14,091,240	417	271	
July.....	14	123	00	318,329	43.1	10,413	41,221	4,570	57,634	17,587,394	427	271	
August.....	15	131	00	324,931	41.3	10,406	41,836	4,292	52,242	17,956,225	429	273	
".....	2	31	00	83,691	45.0	940	6,086	710	7,026	4,650,850	764	157	
September.....	14	106	30	268,366	42.0	9,356	33,891	3,635	43,247	14,795,594	436	273	
October.....	16	114	00	280,209	41.0	10,162	37,045	4,583	47,007	15,460,465	418	273	
".....	9	21	00	56,921	45.2	1,054	4,015	482	5,069	3,159,115	787	156	
November.....	3	32	05	91,023	47.3	1,008	6,499	779	8,206	5,051,775	777	153	
".....	15	106	25	233,509	41.3	9,379	35,103	4,633	44,383	14,561,246	415	273	
December.....	15	104	30	264,084	42.1	12,166	34,781	5,014	46,847	14,596,328	420	273	
Total.....	161	1,337	15	3,412,949	.....	125,942	435,646	58,948	567,988	188,569,639	.....	.....	

March 11, 12, 13, and 14 water was pumped into low service.

August 3, 4, water was pumped into low service reservoir.

October 22, 24, " " " "

November 1, 2, 3, " " " "

253 tons of coal were used in pumping, 192 gallons of oil, 327 pounds of waste.

## HIGH SERVICE STATION.

The pumps at this station are doing their work satisfactorily, and as a rule, one pump running every other day. The engineer in charge understands perfectly how to run the pumps, and also how to make any repairs on the same.

The pumping station, the dwelling-house, barn, and sheds are clean, and kept in condition beyond criticism. The grounds about the premises are in excellent condition, and show great care and attention. About the same amount of labor has been expended in improvements about the station as last year. The low land at the mouth of Slager brook has been cleared of bushes and partly graded. Stone walls have been built and fences made. The highway leading from the Borough road to the pumping station has been repaired, and is in good condition. A portion of the land on the Kidder place has been plowed and seeded down to grass. The land just north of the pumping station, which was a part of the Hunter purchase, was woodland, but since acquiring this property, a strip near the superintendent's dwelling has been cleared as a protection against fire in the future. The buildings have often been endangered in the past by brush fires in this immediate vicinity, and only from the fact that the hydrant service was at command, have the buildings been saved from destruction. It is thought the danger of fire from this source is now avoided.

## LOW SERVICE STATION.

It having become apparent that the storage room was insufficient in capacity, at the old station, it was thought advisable to take down the barn on the Webster land, which is owned by the city, and use the lumber in the erection of a new barn at this station, which has been completed.

## RESERVOIRS.

There has been no expenditure of labor or money at the old reservoir or upon the grounds surrounding it. The fence around it, which was built some twenty years ago, is showing visible signs of decay, and must of necessity undergo repairs.

The new reservoir on Oak Hill shows no apparent leaks. The banks have been topdressed and re-seeded, a process which will probably have to be continued until the banks are in such condition as to prevent washing. A gauge has been put in the gate-house to measure the height of the water in the reservoir.

All the land taken for a reservoir site has been turned over to the street and park commissioners, except the land enclosed by the fence at its base.

## MAIN PIPES.

The high service cast-iron force main has had five leaks the past year, which have occurred at the joints, all without serious damage.

A break occurred on the low service force main under the Webster brook, about one thousand feet from the pumping station. This was caused by the water undermining the stonework and letting the stone down upon the pipe. This was the old wrought-iron and cement pipe, and on examination it was deemed advisable to replace 193 feet of it with new cast-iron pipe.

There have been quite a number of leaks repaired on this line of pipe the past year. The pipe appears sound when uncovered, and as a rule the leaks are in the joints.

## DISTRIBUTION PIPES.

There has been considerable trouble with the distribution pipes during the year. The first serious break was

in February, at the corner of Elm and Bridge streets. There were no personal claims for settlement, the damage being confined to the street.

On the second day of March, owing to the unprecedented freshet in the Merrimack river, a portion of Granite bridge was swept away, and with it one of the supply mains for West Manchester.

A supply main which had been laid in the bed of the Merrimack river twenty-one years ago, about one thousand feet below Granite bridge, has always been kept in repair for use should accidents occur whereby the suspended pipe on the bridge became disabled. Some delay was experienced in letting the water into this pipe, the gate being covered by eight feet of water.

When this pipe was laid in the river the gate was two hundred feet further east and twenty-five feet higher. Later it was moved to its present position, as the railroad company was grading the ground in its vicinity, to increase their yard room, and also to be available in case of fire to Granite bridge.

An examination of the river pipe was made this last summer, and only one leak was found, which was repaired. There are now three lines of pipe to West Manchester, one in the bed of the river, and one each on Granite and McGregor bridges.

The pipe across the canal on Granite street rusted through and was replaced by a fifteen-inch steel pipe made by the Amoskeag Manufacturing Company. The pipe removed was fourteen-inch plain wrought-iron, and had been in use seventeen years.

About three miles of water-pipe extensions have been made on thirty-seven different streets, at an expense of \$15,774. There have also been laid over about one and three fourths miles with cast-iron pipe, at a cost of \$5,680. The grade having been changed in the streets, about

one fourth of a mile of pipe has been lowered to conform to the grade. There are now laid nearly eighty-eight miles of distribution pipe, thirteen of which are cement. There have been laid two hundred and twenty-four service pipes during the season, and some have been re-laid that were filled with rust. Nearly one half the extensions have been made in hard soil, and considerable rock has also been encountered.

The trench at the north end of Elm street is now being excavated through solid ledge, the expense being borne by the sewer and water departments, both laying their pipes therein. This method is to be avoided when not too expensive, for a leak over a sewer would not be detected readily, and considerable loss of water might ensue before discovery.

#### FISH.

There have been quite a number of service pipes examined and fish found therein. This cannot be avoided. It is common in all water-works where the supply is taken from open waters. They pass through the screens when in the fry, and are so small that they will go through the smallest kind of a mesh, and grow in the pipes. The only remedy is to remove them when so found, which is not a frequent occurrence.

The loudest complaint against the water department caused by fish comes from persons who own houses near the city watering-troughs, and supply them from this source, while they have a water meter on their premises. If a fish gets into the pipe to stop the water, your superintendent is immediately notified that the public good requires these troughs to be supplied with running water all the time.

For the first time since the operation of the water-works, complaint was made in April that the water had a

disagreeable taste and the odor was very unpleasant. The complaints were from persons who were drawing from the high service supply, and it was asserted that an animal had been drowned in the reservoir. The objectionable features soon passed away, and the water assumed its normal condition.

Although this condition has never before appeared here, the water in other localities has been affected similarly. There is a vegetable growth in all lake waters which, when developed to a certain stage, and with agitation of the water by continuous high winds, will produce an odor that is distinguishable, but at the same time harmless. The condition appeared to be the same whether in deep or shallow water. It extended north to the shore, east to Deer Neck bridge, and south to within about fifteen hundred feet of the outlet for the low service system.

This is a subject which has been discussed at meetings of the New England Water-Works Association, and no remedy for its avoidance has as yet been discovered. As the water when in this condition seems to be harmless, no fear need be had from its use for culinary purposes.

It is a demonstrated fact that more water is wasted than is used for domestic and fire purposes. More public watering-troughs are running water to waste than in any other city the size of Manchester.

Meters have a tendency to decrease the waste of water, but they are expensive. They have to be looked after every month, and twelve dollars a year is too low for a minimum rate.

The old building on the west bank of the river near River street, long and familiarly known as the "old shanty," has been removed. It was built twenty years ago on the Amoskeag Company's land, the late E. A. Straw giving the water-works department the privilege



to build and have the use of the land from Ferry street nearly to Granite for a pipe yard. In this shanty were kept branches, cast-iron sleeves, wood, cement, and other material to repair the pipe. The railroad has taken possession now, and it does not leave much yard room. There is not so much need of it now, there being not more than six hundred feet of cement pipe now in use on the west side of the river.

The following table shows the rainfall at high service pumping station for 1896.

DAY.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.
1.....		*.30	1.53							.03		
2.....			.34	.42				1.32		.05		
3.....			*.43	.33					.63			
4.....		.06								.07		
5.....		.04	*.11		.10		.15	.17		.04	.86	
6.....		2.75			.06			.44	2.72	.52	.16	
7.....			*.48			.27	.24	.46		.09		
8.....	*.04					.28					.16	
9.....		*.17			.24							1.12
10.....	*.29					.64			.54			
11.....							.09		.08		.18	
12.....			*.23									
13.....	*.09	*.22					.47		.04	.61	*.07	
14.....						.12		.27		.82		
15.....						.08	.09			.53		
16.....			*.36									*.63
17.....			.18			.05		.06	.09			
18.....				.09						.31		*.10
19.....		*.10	*.68		.07				.62			
20.....		*.11	.41	.06					.22			
21.....					.04	.05	.78			.14	*.64	
22.....				.21				.05	.43			
23.....							.09	.36				*.07
24.....								.16		.64	.06	
25.....	*.64						.89					
26.....	.10				.61						.28	
27.....			.05				.02	.11				
28.....												
29.....		.55	.68		.83					.07	.43	
30.....			.43				.08		.77			
31.....					1.11			.31				
	1.16	4.30	5.91	1.11	3.06	1.49	2.90	3.66	6.14	3.92	2.84	1.92

\* Snow melted.

Total rainfall, 38.41 inches.

## RAINFALL AS KEPT BY AMOSKEAG MANUFACTURING CO. AT THEIR GATE HOUSE.

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1875.....	3.20	1.50	3.90	0.60	2.08	4.21	2.44	3.90	2.73	4.47	3.05	0.56	33.32
1876.....	0.54	1.98	4.26	2.41	3.00	2.13	4.79	0.40	4.06	1.25	2.94	.....	27.76
1877.....	1.36	0.53	4.41	3.29	1.92	1.47	3.31	4.46	0.61	7.05	6.13	0.37	34.91
1878.....	4.94	3.39	3.01	6.92	0.25	4.23	2.88	4.62	0.81	4.55	6.21	4.70	46.51
1879.....	0.11	1.45	0.78	2.38	3.44	5.23	4.00	4.36	3.08	0.97	2.31	2.35	30.49
1880.....	3.02	1.49	0.68	2.51	1.45	1.87	5.03	1.37	1.65	3.67	2.22	2.34	27.30
1881.....	2.95	3.52	3.50	1.50	3.39	3.12	3.83	0.88	3.84	3.32	3.66	5.20	38.91
1882.....	3.20	4.48	2.99	1.11	3.05	2.41	2.58	0.16	2.20	4.22	1.72	1.97	33.47
1883.....	3.00	2.48	1.70	2.40	3.79	1.60	5.44	0.95	3.93	1.47	3.02	5.01	38.61
1884.....	4.63	5.22	4.23	3.00	3.00	1.37	1.95	4.43	1.18	3.60	4.24	2.64	38.53
1885.....	5.82	3.41	1.60	3.13	2.65	2.94	2.89	2.50	2.71	2.56	3.02	3.32	37.23
1886.....	5.65	5.37	3.02	2.36	2.22	2.21	2.29	2.60	2.71	2.11	3.43	3.10	44.73
1887.....	4.11	4.12	4.11	3.15	2.62	3.77	7.12	6.30	0.79	5.27	4.09	3.88	49.71
1888.....	3.68	4.48	5.00	3.60	2.83	0.71	1.30	3.90	3.04	3.84	5.40	3.92	38.40
1889.....	3.06	2.03	2.50	2.82	2.89	2.82	5.18	1.40	4.45	6.72	1.34	3.15	44.56
1890.....	2.66	3.75	6.41	1.77	4.33	2.65	3.25	4.08	1.77	3.33	1.96	3.95	35.25
1891.....	6.22	3.47	4.63	1.65	1.54	3.46	3.01	5.34	1.51	0.96	4.47	0.95	34.89
1892.....	3.80	2.00	2.55	0.81	6.14	4.47	1.89	4.35	1.88	3.96	2.14	4.31	37.93
1893.....	2.47	6.65	2.78	2.36	4.98	1.55	1.50	4.03	3.11	2.71	2.24	2.08	26.67
1894.....	2.34	2.49	1.19	2.11	4.03	0.41	2.47	0.89	3.11	2.71	2.24	2.08	26.67
1895.....	2.54	0.60	2.90	4.72	2.39	2.87	5.18	2.66	2.05	4.42	6.38	3.44	40.15
1896.....	2.10	4.00	6.74	0.95	2.60	0.92	2.22	3.17	5.41	3.09	2.66	1.47	35.33



## RAINFALL AS KEPT BY SAMUEL D. LORD.

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1882.....	1.08	4.50	2.38	0.75	4.04	2.24	2.15	0.14	7.77	1.76	0.98	1.70	30.09
1883.....	2.10	2.96	1.55	1.95	3.25	1.61	4.95	1.04	2.08	3.98	1.69	2.21	29.37
1884.....	4.25	5.84	5.00	3.66	3.07	1.60	2.39	3.95	0.87	1.02	2.87	4.44	39.56
1885.....	4.45	3.00	1.01	2.94	2.91	3.54	2.64	4.51	1.32	3.58	3.99	3.34	37.23
1886.....	5.48	5.35	3.19	1.63	2.79	2.32	2.73	2.74	3.10	2.92	4.57	4.18	41.00
1887.....	5.61	4.76	3.99	3.33	3.07	4.16	9.34	6.60	1.04	2.38	3.42	3.74	51.44
1888.....	4.85	4.84	5.22	3.27	4.23	2.00	1.70	4.66	9.55	6.63	4.17	3.21	53.72
1889.....	3.48	1.86	2.67	2.76	2.72	3.12	6.65	1.77	3.92	4.03	5.23	3.82	42.03

## RAINFALL TAKEN BY UNITED STATES OFFICIALS AT MANCHESTER, N. H.

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1854.....	2.91	5.40	2.31	5.77	3.60	2.25	2.46	2.50	5.30	2.56	7.56	2.37	44.99
1855, no record.....													
1856.....	2.00		0.70							2.23	2.88	5.82	
1857.....	3.58		1.13	4.57	5.75	2.18	4.58	6.73	1.50	5.92	1.66	4.90	
1860.....													
1861.....	2.71	3.57	2.03	4.45	5.24	1.84	2.99	6.33	3.84	3.68	4.06	2.60	
1864.....													44.59
1865.....	4.45	2.67	1.08	3.02	2.93	3.81	2.65	4.61	1.57	3.88	2.87	4.44	
1866.....	5.82	5.61	3.28	1.63	2.72	2.49	2.86	2.91	3.27	3.03	4.69	3.94	38.70
1867.....	5.48	5.20	3.68	2.34	2.20	3.37	7.14	6.33	0.94	1.98	4.73	4.86	43.21
1868.....	3.76	3.76	4.41	2.60	4.05	1.73	1.63	4.20	8.58	5.47	3.66	3.30	45.18
1869.....	2.79	1.71	2.10	2.45	2.29	3.04	5.38	1.72	3.32	3.52	5.01	2.96	46.81
1890.....	3.02	3.96	5.73	1.76	4.54	3.66	2.91	4.57	4.71	6.19	1.35	3.61	36.94
1891.....	6.10	3.26	3.94	1.63	1.90	3.58	3.14	2.01	1.61	2.16	1.74	3.30	45.70
1892.....	3.46	2.18	2.29	0.69	5.42	4.68	1.72	6.43	1.39	1.01	3.89	0.86	34.34
1893.....	2.30	5.18	2.46	1.79	4.46	1.61	1.61	3.99	2.25	3.22	1.88	4.31	35.06

## RAINFALL TAKEN BY MR. HILL AT AUBURN, N. H.

YEARS.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Annual.
1874.....	2.36	4.65	3.54	8.55	3.54	2.60	9.84	7.63	4.00	2.70	3.30	0.79	.....
1875.....	7.90	13.87	9.35	3.80	5.34	6.96	5.50	1.40	9.03	7.49	3.20	0.02	.....
1876.....	4.88	0.62	7.45	5.95	3.70	5.59	3.93	9.78	6.54	3.27	3.76	3.83	.....
1877.....	8.20	5.30	3.70	13.80	1.28	8.75	3.61	10.14	1.60	13.15	11.20	1.05	.....
1878.....	3.00	.....	.....	.....	.....	8.41	.....	.....	.....	7.28	9.82	7.89	.....
1879.....	14.17	5.06	4.08	4.37	3.50	4.75	5.50	2.25	4.73	.....	4.10	.....	.....
1880.....	4.40	6.74	9.30	1.50	7.24	.....	7.92	4.02	7.02	6.10	7.15	5.21	.....
1881.....	3.71	4.97	7.25	.....	.....	5.00	2.00	0.35	10.00	2.68	2.38	2.50	.....
1882.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
1883.....	4.28	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

The rainfall taken by Mr. Hill is twice as much as that kept by the Amoskeag Manufacturing Co., and I think he must have taken the gauge wrong. A. E. STEARNS.

The income from sale of water for 1896 has been as follows:

Received for water by rate.....	\$32,540.03	
for water by meter....	77,610.10	
for building purposes.	638.48	
from fines.....	302.80	
	<hr/>	\$111,091.41
Received for hydrant rent.....		16,800.00
Received for old cement pipe....	\$162.00	
for labor and pipe sold	83.42	
for labor and pipe sold		
S. C. Forsaith Co....	48.45	
for old brass.....	74.25	
from city, for 2-inch		
pipe and valves.....	72.00	
	<hr/>	440.12
Received from Mel. Hall, for five		
buildings.....	\$300.00	
from H. Severance		
(Heath cottage)....	12.00	
from Arthur Sinclair		
(Faucher barn)....	25.00	
from Chas. Pettigrew		
(Webster building).	25.00	
from S. G. Prescott		
(Wilkins' building).	10.00	
from S. G. Prescott,		
rent.....	60.00	
from Massabesic		
Grange, rent.....	50.00	
from Asa Heselton,		
rent.....	12.50	
from Sarah H. Gilbert,		
rent two years.....	4.00	

Received from W. G. Brown, rent (Cochrane building).	\$36.00	
from Charles Whitten, grass on Reed land..	5.00	
from Charles Spofford, grass on Canfield land.....	20.00	
from L. E. Emery, grass on Eaton land.....	3.00	
from T. E. Reed, grass on C. Reed land.....	3.00	
from G. G. Griffin, lease	1.00	
from F. Brown, lease...	1.00	
from J. A. Sinclair, rent	8.00	
	<hr/>	\$575.50
Total receipts.....		\$128,907.03
Abatements, \$467.89.		
Amount on hand Dec. 31, 1895....	\$42,720.01	
received from water rates, etc.....	112,107.03	
received from hydrant rentals.....	16,800.00	
	<hr/>	
Total receipts.....		\$171,627.04
Amount paid for current ex- penses.....	\$30,894.36	
paid for construction expenses.....	65,099.32	
Interest on bonds, 1896.....	41,446.00	
Hydrant rentals set aside for sinking fund.....	16,800.00	
	<hr/>	
Total expenditures, 1896.....		\$154,239.68
Balance on hand Dec. 31, 1896.....		\$17,387.36

The premium on water bonds sold in	
1893, amount \$200,000, was.....	\$6,090.00
1894, amount \$50,000, was.....	2,395.00
July, 1895, amount \$100,000, was.....	6,265.00
December, 1895, amount \$50,000, was.....	3,602.56
1896, amount \$100,000 (refunded), was.....	6,248.00
Total.....	<u>\$24,600.56</u>

This amount has not been credited to the water-works department as it should have been, but has been used by the city for other purposes.

#### CLASSIFICATION OF ACCOUNTS FOR 1896.

Superintendence, repairs, and re-	
newals.....	\$21,271.42
Stationery and printing.....	317.67
Office and incidental expenses..	3,329.57
Pumping expenses,—low service	2,150.61
Pumping expenses,—high ser-	
vice.....	2,569.23
Repairs to dam, canal, dam and	
reservoir.....	209.86
Repair to buildings.....	46.00
Total current expenses for 1896.....	<u>\$30,894.36</u>
Service pipes.....	\$3,591.54
Distribution pipes.....	20,216.19
Fire hydrants and valves.....	1,442.62
Meters.....	4,257.34
Land.....	32,525.00
Pumping machinery and build-	
ings.....	1,577.42
Grading and fencing.....	1,489.21
	<u>\$65,099.32</u>
Total construction expenses for 1896..	95,993.68
Sinking fund.....	16,800.00
Total.....	<u>\$112,793.68</u>

*Construction Expenses.*

Land and water rights.....	\$135,734.00
Dam, canal, penstock and races.	101,399.16
Pumping machinery, pump house, and buildings.....	176,372.19
Distribution reservoir.....	117,697.90
Force and supply main.....	89,769.02
Distribution pipes.....	568,011.24
Fire hydrants and valves.....	57,716.69
Meters and fixtures.....	51,093.06
Service pipes.....	68,617.89
Grading and fencing.....	16,711.97
Tools and fixtures.....	10,649.35
Boarding and store houses.....	919.36
Roads and culverts.....	4,405.20
Supplies.....	550.39
Engineering.....	22,176.19
Livery and traveling expenses...	2,856.64
Legal expenses.....	563.79

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Total construction expenses to Dec.

31, 1896..... \$1,425,244.04

*Current Expenses.*

Superintendence, collecting, and repairs.....	\$273,054.25
Stationery and printing.....	7,026.43
Office and incidental expenses..	31,407.26
Pumping expenses at low ser- vice.....	51,655.65
Pumping expenses at high ser- vice.....	9,758.55
Repairs to buildings.....	3,216.73
Repairs to dam, canal, races, and reservoir.....	5,034.38

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Total current expenses to Dec. 31,

1896..... \$381,153.25

Interest.....	\$40,678.51	
Highway expenditures.....	14,000.53	
	<hr/>	\$54,678.04

Total amount of bills approved to date.....	\$1,861,076.33	
Interest, discount, and labor performed on highway, trans- fers, and tools and materials sold.....	\$66,106.17	
Current expenses to Dec. 31, 1896.....	381,153.25	
	<hr/>	\$447,259.42

Total cost, exclusive of interest and current expenses.....	\$1,413,816.91	
Interest and discount to Dec. 31, 1895.....	\$801,454.51	
Interest for 1896.....	41,446.00	
	<hr/>	
Total interest and dis- count to Dec. 31, 1896.....	\$842,900.51	

AMOUNT OF WATER BONDS ISSUED TO DECEMBER 31, 1896.

Issued January 1, 1872, rate 6 per cent, due January 1, 1902.....	\$100,000
Issued January 1, 1887, rate 4 per cent, due January 1, 1907.....	100,000
Issued July 1, 1890, rate 4 per cent, due July 1, 1910.....	100,000
Issued January 1, 1892, rate 4 per cent, due January 1, 1910.....	100,000
Issued August 1, 1893, rate 5 per cent, due August 1, 1913.....	100,000
Issued November 1, 1893, rate 4½ per cent, due November 1, 1913.....	100,000



Issued October 1, 1894, rate 4 per cent, due October 1, 1914.....	\$50,000
Issued July 1, 1895, rate 4 per cent, due July 1, 1915.....	100,000
Issued December 16, 1895, rate 4 per cent, due December 16, 1915.....	50,000
Issued January 1, 1897, rate 4 per cent, due January 1, 1917.....	100,000
	<hr/>
	\$900,000

## SINKING FUND.

1893.....	\$12,750.00
1894.....	13,925.00
1895.....	15,800.00
1896.....	16,800.00
	<hr/>
Total.....	\$59,275.00

## STATEMENT OF RECEIPTS.

Year.	Total.	Hydrant rent.	Water by rate.	Water by meter.	Received for building purposes.	Fines.	Labor, pipe, and mate- rial sold.	Rentals and building sold.	Number of meters.
1872	\$573.61						\$573.61		
1873	2,097.60					\$14.00	200.07		8
1874	32,154.07	\$22,425.00	7,987.27	1,436.56	\$119.10	104.18	699.85		98
1875	29,223.60	13,095.00	10,292.13	3,348.11	122.13	120.59	2,245.64		160
1876	39,028.47	16,320.00	15,900.63	6,305.81	72.32	180.16	249.55		166
1877	43,823.30	17,475.00	18,064.51	7,783.09	136.10	233.04	131.56		202
1878	48,874.26	17,970.00	20,255.97	10,090.25	83.60	232.82	241.62		226
1879	53,143.17	18,165.00	21,610.13	12,732.93	81.60	240.64	303.87		251
1880	57,655.25	18,300.00	23,795.96	14,794.34	79.50	210.39	465.06	\$10.00	280
1881	60,215.62	18,780.00	25,336.18	15,554.98	105.60	223.99	203.87	11.00	310
1882	67,630.13	20,130.00	26,803.06	19,898.69	146.65	197.49	443.24	11.00	371
1883	73,458.20	20,520.00	28,838.24	23,431.20	314.65	208.04	125.07	21.00	404
1884	75,580.08	21,350.00	31,724.07	21,329.75	195.10	231.96	738.20	11.00	446
1885	80,404.12	18,900.00	33,597.02	27,425.35	102.50	186.80	181.45	11.00	486
1886	75,129.99	19,750.00	33,062.11	21,573.45	287.40	130.80	320.23	6.00	613
1887	80,518.17	20,437.50	33,497.21	25,277.09	351.70	119.20	819.47	16.00	739
1888	85,643.82	21,000.00	33,864.78	29,838.82	543.80	149.80	243.62	3.00	842
1889	86,700.46	18,240.00	34,140.99	33,596.05	361.95	153.20	155.27	53.00	951
1890	90,463.37	19,880.00	32,431.10	37,009.80	649.90	151.80	298.77	42.00	1,135
1891	76,605.23	4,590.00	30,588.79	40,479.25	494.80	160.40	200.99	91.00	1,313
1892	83,474.79	5,000.00	31,344.24	46,139.35	416.00	168.40	139.80	267.00	1,608
1893	104,170.08	12,750.00	32,608.59	58,103.20	1,033.75	159.60	339.38	180.56	1,895
1894	110,210.29	13,925.00	32,176.28	62,501.35	697.80	227.40	334.82	347.64	2,182
1895	118,374.50	15,800.00	32,903.99	67,465.90	808.20	300.40	768.17	327.84	2,520
1896	128,907.03	16,800.00	32,540.03	77,610.10	638.48	302.80	440.12	575.50	2,856

1878, meter rate was changed. 1884, hydrant rates reduced. 1886, meter and other rates reduced. 1889, hydrant rates reduced. 1891 and 1892, received only part of hydrant rent, and nothing from water-troughs or street sprinklers. 1893, hydrant rent and water-closets rate reduced.

The following amounts have been paid over to the city treasurer, and credited to the water-works:

1872, supplies and materials sold.....	\$573.61
1873, supplies and materials sold.....	177.07
accrued interest on water bonds sold	193.26
accrued interest on state bonds sold..	146.00
water rents.....	1,920.53
1874, supplies and materials sold.....	607.89
March 12, highway expenditures	
transferred from water account...	14,000.53
March 17, interest and discount trans-	
ferred from water account.....	12,347.25

1874, September 1, interest and discount transferred from water account...	\$22,361.74
water and hydrant rent.....	30,233.54
December 29, interest transferred...	4,566.25
1875, water and hydrant rent.....	27,119.15
sundry items.....	2,104.45
1876, sundry items.....	149.00
water and hydrant rent.....	38,879.47
1877, sundry items.....	131.56
water and hydrant rent.....	43,691.74
1878, water and hydrant rent.....	48,632.64
sundry items.....	241.62
1879, sundry items.....	303.87
water and hydrant rent.....	52,839.30
1880, water and hydrant rent.....	57,180.19
sundry items.....	475.06
1881, water and hydrant rent.....	60,000.75
sundry items.....	214.87
1882, water and hydrant rent.....	67,175.89
sundry items.....	454.24
1883, water and hydrant rent.....	73,312.13
sundry items.....	146.07
1884, water and hydrant rent.....	74,830.88
sundry items.....	749.20
1885, water and hydrant rent.....	80,211.67
sundry items.....	192.45
1886, water and hydrant rent.....	74,803.76
sundry items.....	326.23
1887, water and hydrant rent.....	79,682.70
sundry items.....	835.47
1888, water and hydrant rent.....	85,397.20
sundry items.....	246.62
1889, water and hydrant rent.....	86,492.19
sundry items.....	208.27
1890, water and hydrant rent.....	90,122.60

1890, sundry items.....	\$340.77
1891, water and hydrant rent.....	76,313.24
sundry items.....	291.99
1892, water and hydrant rent.....	83,067.99
sundry items.....	406.80
1893, water rent.....	90,900.14
sundry items.....	519.94
1894, water rent.....	95,602.83
sundry items.....	682.46
1895, water rent.....	101,478.49
sundry items.....	1,096.01
1896, water rent.....	111,091.41
sundry items.....	1,015.62
Total.....	<u>\$1,697,086.60</u>

## METERS.

The number of meters set during the year has been three hundred and thirty-six (336).

Total number of meters now in use, twenty-eight hundred and fifty-six (2,856).

The number of applications for water has been two hundred and seventeen (217).

Total number of applications to date, fifty-one hundred and fifty-two (5,152).

## SERVICE PIPES.

Two hundred and twenty-four service pipes (224) have been laid this year, as follows:

221 1-inch.....	5,369.0 feet
3 2-inch.....	46.0 "
Total.....	<u>5,415.0 feet</u>

## SERVICE PIPES RELAID.

3 $\frac{1}{2}$ -inch dia.	91.0 feet to 1-inch dia.....	63.5 feet
48 $\frac{3}{4}$ -inch dia.	1,331.0 feet to 1-inch dia.....	1,285.6 "
1 $\frac{3}{4}$ -inch dia.	34.0 feet to 1 $\frac{1}{2}$ -inch dia.....	34.0 "
1 1-inch dia.	155.8 feet to 1-inch dia.....	44.0 "
1 2-inch dia.	8.5 feet to 2-inch dia.....	8.5 "
	<hr/>	<hr/>
	1,620.3 feet	1,435.6 feet

Old pipe, 1,620.3 feet; new pipe, 1,435.6 feet.

Forty-nine hundred and eighty-three (4,983) service pipes have been laid to date, as follows:

29 $\frac{1}{2}$ -inch diameter.....	620.6 feet
1,617 $\frac{3}{4}$ -inch diameter.....	42,208.8 "
3,201 1-inch diameter.....	80,579.9 "
22 1 $\frac{1}{4}$ -inch diameter.....	893.5 "
24 1 $\frac{1}{2}$ -inch diameter.....	770.2 "
67 2-inch diameter.....	2,182.7 "
2 2 $\frac{1}{2}$ -inch diameter.....	57.0 "
5 3-inch diameter.....	89.8 "
10 4-inch diameter.....	269.5 "
6 6-inch diameter.....	"
	<hr/>
	127,672.0 feet

Number miles service pipe, 24.18.

The following streets are where cement-lined pipe was taken up and cast-iron laid in 1896:

STREETS.	LENGTH OF PIPE.					LOCATION.
	20 in.	10 in.	8 in.	6 in.	4 in.	
Amherst .....				2300		Beech to Hall.
Brook .....				661		Elm to Canal.
Canal .....			1890			Bridge to Brook.
Central .....				1243		Maple to Wilson.
Cohas Ave. ....	193			48		At Culvert.
Dean .....				10		Cor. Canal.
Douglas .....				228		East of Main.
Dutton .....					471	Amherst to Concord.
Green .....				59		Elm near freight station.
Grove .....				59		" " "
Hollis .....				25		Cor. Canal.
Kidder .....				710		Canal to Elm.
Langdon .....				33		Cor. Canal.
Laurel .....				653		Wilson to east of Hall.
S. Main .....		172				Near Milford.
Manchester .....				858		No. 200 to Beech.
	193	172	1890	6887	471	

Total relaid, 9,613 feet, or 1.82 miles.

Hydrant on Massabesic, corner Old Falls road, was moved over on Old Falls road.

The pipes, gates, and hydrants on Green, Grove, and Summer, corner Elm, at new freight station, were changed to Elm street.



PIPES LAID AND GATES AND HYDRANTS SET IN 1896. — *Continued.*

STREETS.	PIPES LAID IN FEET.						GATES SET.						HYDRANTS.	LOCATION.
	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.		
Laurel.....									1				.....	Corner Hall.
S. Main.....											1		.....	Corner Blaine.
Manchester.....					348								.....	Corner Union and Beech.
Mast.....					241						2		.....	To Fullerton residence.
Mast (new).....					602								.....	Westward.
Montgomery.....					405						2		.....	Amory to Kelley.
Old Falls Road.....					26								.....	West of Massabesic.
Orange.....					28								1	Corner Belmont.
Prospect.....													.....	Corner Belmont.
Sagamore.....					806						2		.....	East of Oak.
Shasta.....					994						1		1	East of Beech.
Sherman.....					245						1		.....	West of Boynton.
Summer.....					139							1	.....	West of Beech.
Tilton.....						300							.....	North of Milford.
Union.....				19									.....	To Carpenter.
Williams.....					250								.....	Extended north.
Wilson.....					228								.....	South of Clay.
Young.....					491						1		.....	East of Jewett.
	652	1457	928	2418	11946	300	1	1	1	7	34	1	16	

Total, 17,001 feet, or 3.22 miles. 45 gates, 16 hydrants.



## LOCATION OF HYDRANTS SET IN 1896.

Avon, near A. Dickey's residence.

Belmont, south of Clay.

Carpenter, west of Union.

Clay, corner Lincoln.

Grove, corner Beech.

Harrison, corner Belmont.

Harrison, corner Hall.

Harvard, corner Hall.

Hayward.

Hevey, south of Amory.

Kelly, corner Montgomery.

Lake, east of Canton.

Lake, east of Mammoth road.

Shasta, corner Maple.

Summer, corner Beech.

Hydrant on Massabesic, corner Old Falls road, moved  
on to the Old Falls road.

## SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1896.

STREETS.	Length and size of cement-lined pipe laid.						Length and size of cast-iron pipe laid.						Gates set.						Air valves.	Hydrants.					
	20 in.						20 in						20 in												
	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	14 in	12 in.	10 in.	8 in.	6 in.	4 in.	20 in	14 in	12 in	10 in	8 in.	6 in.			4 in.				
Pumping station*.							4216			153		43		2			2			2		2	2	.....	.....
Force main, C. I. J.	1226						133							2										.....	.....
Force main, C. J..	6738					63	324					75		2						3			2	3	.....
Supply main †	8049					126	361			28				1			1			5			1	3	.....
Adams, north.												1308								3			.....	.....	
Appleton												1694								3			.....	4	
Amherst						101					957	4343					2		11				13	.....	
Arlington.												1458								3			.....	3	
Ash						700						50	954							2	2		.....	1	
Ashland										2264							3						.....	.....	
Auburn.						57					995	3701					1		8				13	.....	
Baker												1698							4				.....	4	
Bay.												1496							3				.....	1	
Beacon												1089							1				.....	1	
Bedford						24						768							4				.....	3	
Beech		3920.		37	18					6051	620				10		2		2	1			.....	2	

\* To Fletcher's Crossing.

† From old reservoir by Mammoth road and Massabesic street to Lake avenue.

[illegible]



[illegible]



[illegible]





Wilson.....	50	10	5573	.....	.....	.....	.....	.....	11	1	.....	1	.....	1
Willow.....	.....	.....	.....	.....	.....	.....	550	.....	.....	2	.....	.....	.....	.....
Woodbine.....	.....	.....	.....	.....	.....	.....	464	.....	.....	1	.....	.....	.....	1
Woodland avenue..	.....	.....	.....	.....	.....	.....	1212	.....	.....	.....	.....	.....	.....	3
Young.....	.....	.....	.....	.....	.....	.....	1879	.....	.....	2	.....	.....	.....	2
WEST SIDE RIVER	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
A.....	.....	.....	.....	.....	.....	.....	836	.....	.....	1	.....	.....	.....	3
Abbott.....	.....	.....	.....	.....	.....	.....	133	.....	.....	.....	.....	.....	.....	.....
Adams.....	.....	.....	.....	.....	.....	.....	410	.....	.....	1	.....	.....	.....	2
Alsace.....	.....	.....	.....	.....	.....	.....	801	.....	.....	3	.....	.....	.....	.....
Anoskeag road...	.....	.....	.....	.....	.....	.....	2922	14	.....	2	1	1	.....	1
Amory (north)...	.....	.....	.....	.....	.....	.....	2342	.....	.....	2	.....	.....	.....	3
Amory (south)...	.....	.....	.....	.....	.....	.....	2836	47	.....	4	.....	.....	.....	7
Avon.....	.....	.....	.....	.....	.....	.....	420	.....	.....	.....	1	.....	.....	1
B.....	.....	.....	.....	.....	.....	.....	606	.....	.....	1	.....	.....	.....	.....
Bar.....	.....	.....	.....	.....	.....	.....	250	.....	.....	.....	1	.....	.....	.....
Bartlett.....	.....	.....	.....	.....	.....	.....	1801	.....	.....	1	.....	.....	.....	2
Bath.....	.....	.....	.....	.....	.....	.....	517	.....	.....	1	.....	.....	.....	2
Beaumont.....	.....	.....	.....	.....	.....	.....	3579	.....	.....	4	.....	.....	.....	.....
Bennington.....	.....	.....	.....	.....	.....	.....	48	.....	.....	1	.....	.....	.....	1
Bismarck.....	.....	.....	.....	.....	.....	.....	1036	.....	.....	1	.....	.....	.....	1
Blaine.....	.....	.....	.....	.....	.....	.....	1573	.....	.....	3	.....	.....	.....	3



[illegible]

SCHEDULE OF PIPES AND FIXTURES LAID TO DECEMBER 31, 1896. — *Continued.*

STREETS.	Length and size of cement-lined pipe laid.						Length and size of cast-iron pipe laid.						Gates set.						Air valves.	Hydrants.
	20 in.						20 in.						20 in.							
	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.	14 in.	12 in.	10 in.	8 in.	6 in.	4 in.		
McDuffie .....												527						1	.....	2
McGregor .....											150	2161						3	.....	3
Mill .....												586						2	.....	3
Millford .....												2849						3	.....	6
Monmouth .....													204						.....	.....
Montgomery .....												1076						3	.....	.....
Morgan .....												288						1	.....	.....
Old Amherst road .....												829						2	.....	1
Parker .....												5	972					1	.....	.....
Piscataquog river .....											477						2	1	.....	.....
Prince .....												598						1	.....	2
Putnam .....												658						2	.....	.....
Quincy .....													260					1	.....	.....
Riddle .....												945						1	.....	1
Rimmon .....												1975						4	.....	.....
Rockland .....												2727						4	.....	.....
School .....												995						2	.....	.....



## DISTRIBUTION PIPES AND GATES LAID TO DECEMBER 31, 1896.

SIZE.	Cement-lined pipe.	Cast-iron pipe.	Gates.
20-inch diameter.....	20,367 feet	24,679 feet.	18
14-inch diameter.....	5,645 "	9,948 "	14
12-inch diameter.....	7,444 "	21,953 "	31
10-inch diameter.....	607 "	26,607 "	40
8-inch diameter.....	3,300 "	53,895 "	83
6-inch diameter.....	28,540 "	240,774 "	566
4-inch diameter.....	2,173 "	18,308 "	58
	68,076 feet.	396,164 feet.	810

Cement-lined pipe..... 12.893 miles

Cast-iron pipe..... 75.031 "

Total pipe..... 87.924 miles

687 hydrants.

810 gates.

13 air valves.

Yours respectfully,

CHARLES K. WALKER,

*Superintendent.*

### Uses for which Water is Supplied.

#### WATER FIXTURES, ETC.

11,123 Families, 148 boarding-houses, 14,616 faucets, 3,549 wash-bowls, 2,845 bath-tubs, 9,408 water-closets, 539 wash-tubs, 206 urinals, 3,332 sill-cocks, 2,674 horses, 126 cattle, 687 fire-hydrants, 28 watering-troughs, 8 drinking-fountains, 51 stand-pipes, 2 public urinals.

## PUBLIC BUILDINGS.

1 Jail, 27 churches, 1 court house, 10 hose companies, 6 fire engines, 2 hook-and-ladder, 3 opera houses, 3 convents, 4 city hospitals, 4 cemeteries, 1 orphanage, 1 post-office, 1 city library, 6 banks, 9 hotels, 1 Masonic hall, 1 Odd Fellows' hall, 3 halls.

## SHOPS.

57 Barber, 10 wheelwright, 19 blacksmith, 8 carpenter, 2 tinsmith, 1 copper, 3 currying, 19 plumber and gas and water pipe, 14 paint, 3 gunsmith.

## STORES.

4 Auction, 35 drug, 22 jewelry, 1 fur, 3 house-furnishing goods, 20 fancy goods, 1 wholesale paper, 5 wholesale produce, 24 dry goods, 12 candy, 1 cloak, 16 millinery, 3 tea, 9 furniture, 1 wholesale grocer, 107 grocery, 6 meal, 3 hardware, 34 boot and shoe, 11 stove, 17 gents' furnishing goods, 7 book, 1 leather and shoe-finders, 3 music, 3 upholstery, 9 undertakers, 5 sewing-machine, 1 feather-cleaner, 1 rubber.

## SALOONS.

18 Dining, 7 billiard, 55 liquor.

## MISCELLANEOUS.

6 Clubrooms, 3 bleacheries, 37 laundries, 4 ice-houses, 11 photographers, 1 Mercy Home, 2 old ladies' homes, 1 soldiers' monument, 1 Turner hall, 4 fountains, 2 trust companies, 1 city farm, 3 depots, 9 greenhouses, 2 band rooms, 26 bakeries, 2 waste, 1 business college, 32 school-houses, 1 battery building, 1 skating-rink, 1 kitchen, 3 ward-rooms, 1 gymnasium, 2 police stations.

## MANUFACTURING ESTABLISHMENTS.

1 Hosiery mill, 1 silver-plating, 2 iron foundries, 2 dye-houses, 5 machine shops, 6 clothing manufactories, 8 harness shops, 1 cornice works, 1 brush shop, 9 carriage shops, 12 cigar factories, 1 brass and copper foundry, 1 locomotive works, 1 grist-mill, 1 silk-mill, 3 granite works, 2 electric light stations, 4 sash and blind shops, 1 brewery, 6 shoe shops, 1 gas works, 4 slaughter-houses, 1 soap factory, 4 needle manufactories, 6 beer-bottling, 3 book-binderies, 1 paper-mill, 2 box-makers, 1 paper-box manufactory.

## MARKETS.

6 Fish, 12 meat and fish, 3 meat (wholesale).

## STABLES.

23 Livery, 1 electric railroad, 1,073 private.

## OFFICES.

20 dentists, 1 telephone, 2 telegraph, 2 express, 14 printing, 1 gas, 17 coal.

---

Materials on Hand.

## PIPE.

8,100 feet 20-inch, 2,000 feet 14-inch, 5,000 feet 12-inch, 2,500 feet 10-inch, 1,000 feet 8-inch, 1,000 feet 6-inch.

## BRANCHES.

2 double 6 on 20, 1 double 6 on 12, 2 double 8 on 12, 6 double 6 on 10, 6 double 6 on 14, 1 double 4 on 4, 1 double



4 on 6, 1 single 6 on 20, 2 single 10 on 20, 1 single 12 on 14, 6 single 6 on 14, 2 single 6 on 10, 1 single 8 on 8, 5 single 6 on 12, 2 single 10 on 10, 1 single 4 on 6, 3 single 20-inch Y's, 17 single 6 on 6.

## WHOLE SLEEVES.

2 20-inch, 2 14-inch, 1 12-inch, 10 10-inch, 21 8-inch, 37 6-inch, 22 4-inch.

## REDUCERS.

5 8-inch to 6-inch, 5 10-inch to 8-inch, 2 14-inch to 12-inch, 4 10-inch to 6-inch, 2 6-inch to 4-inch, 2 10-inch to 14-inch.

## TURNS.

2 20-inch 1-16, 2 10-inch 1-4, 2 10-inch 1-8, 2 8-inch 1-4, 4 6-inch 1-4, 5 6-inch 1-8.

## RISERS.

2 10-inch, 2 6-inch, 2 8-inch.

## GATES.

1 12-inch, 1 10-inch spigot, 1 10-inch hub, 2 8-inch spigot, 3 8-inch bells, 9 6-inch spigots, 7 6-inch bells.



REPORT  
OF THE  
STREET AND PARK COMMISSIONERS.



# FOURTH ANNUAL REPORT

## OF THE

### STREET AND PARK COMMISSIONERS.

---

*To His Honor the Mayor and City Councils of the City of Manchester, N. H.:*

GENTLEMEN,—We have the honor herewith to submit the fourth annual report of this department.

The following gives the receipts and expenditures of the office for the year 1896:

#### RECEIPTS.

Received from Manchester Street Railway..	\$1,228.00
from sundry sources.....	172.07
	<hr/>
Total.....	\$1,400.07
Deposited with city treasurer.....	1,391.29
Cash paid out for express, etc.....	8.25
Balance on hand.....	.53
	<hr/>
Total.....	\$1,400.07

#### EXPENDITURES.

Commissioners' salaries.....	\$1,800.00
Clerical services.....	1,174.46

Carriage allowance.....	\$450.00
Office supplies.....	72.42
Blank books.....	92.44
Incidentals.....	82.96
Telephone.....	39.75
Total.....	<u>\$3,712.03</u>

### Inventory of City Property.

Commissioners' office, including typewriter, furniture, office supplies.....	\$349.25
Division No. 2, including 18 horses, dump- carts, sprinklers, snow-plows, road-ma- chine, tools, Carson trench machine, steam hoister, etc.....	20,724.49
City stables, storage shed, blacksmith shop, carpenter shop.....	15,950.00
Lot of land on Franklin street.....	89,312.00
Valuation of pipe on hand at city yard.....	1,075.27
Division No. 4.....	2.00
Division No. 5.....	37.73
Division No. 6.....	23.50
Division No. 7.....	77.65
Division No. 8.....	37.50
Division No. 9.....	23.00
Division No. 10, including 3 horses, road- machine, dump-carts, sprinklers, etc.....	1,849.40
Stable and lot, Division No. 10.....	1,200.00
Valuation of pipe on hand, Division No. 10..	25.27
Commons, including horse lawn-mower, swings, seats, etc.....	335.96
Total.....	<u>\$131,023.02</u>

Orders Received from City Government, with Date  
of Passage.

ORDERS TO BUILD FOLLOWING SEWERS.

Hevey east back, Amory to Wayne.  
Auburn south back, Wilson to 150 feet east of Hall.  
Belmont, Bridge to Mead.  
Spruce, Canton easterly 250 feet.  
Passed January 7.

Valley, Wilson easterly 200 feet.  
Beacon, Spruce northerly 150 feet.  
Orange, Hall to Belmont.  
Clarke, River road to Elm.  
Elm, Clarke to Rowell.  
Passed February 4.

Pine, Auburn northerly to Cedar south back.  
Cedar south back, Pine to Beech.  
Passed May 5.

Cartier east back, present sewer to 250 feet south of  
Sullivan.

Dartmouth, Dickey to Frederick.  
Conant, Cartier westerly 60 feet.  
Cesspool in Main west back.  
Two cesspools, corner Myrtle and Hall.  
Passed June 2.

B, C street northerly about 150 feet.  
Valley, Jewett westerly to Foster ave.  
Foster avenue, Valley southerly to Hayward.  
Merrimack, northerly to Hanover east of Beacon.  
Hanover, above sewer easterly about 500 feet.  
Passed July 14.

Quincy, present sewer southerly 90 feet.  
Beauport east back, Wayne southerly 350 feet.  
Locust, Christian brook to Sagamore.  
Sagamore, Locust easterly about 136 feet.  
Sagamore, Salmon 120 feet west to west line of Elm.  
Liberty, Christian brook to 200 feet north of North.  
Old Bridge street, Belmont westerly 125 feet.  
Belmont, Valley to Clay.  
Green south back, Union to Beech.  
Passed August 4.

Laurel to Merrimack.  
Hall, Prospect to Harrison.  
Harrison, Hall to Belmont.  
Union, Appleton north 150 feet.  
Maple, Silver to Prescott.  
Passed September 1.

Carroll, Amherst road southerly 250 feet.  
Lake avenue, Canton easterly 300 feet.  
Grove south back, Union easterly 150 feet.  
Passed October 6.

Beacon, Amherst to Concord.  
Schiller, Hale to South Main.  
Sagamore, Oak to Linden.  
Walnut east back, Christian brook to Salmon.  
Montgomery east back, Kelly to Amory.  
Carpenter, Elm to Union.  
Auburn south back, Maple westerly about 50 feet.  
Passed November 10.

Walnut east back, Christian brook northerly 200 feet.  
Linden, Prospect to Harrison.  
Harrison, Linden to Russell.  
Passed December 1.



## ORDERS TO BUILD FOLLOWING STREETS.

Wentworth.

Passed January 7.

Shasta, Beech to Lincoln.

Spruce, Canton to J. Hall road.

Carpenter, Elm to Union.

Passed June 2.

Sagamore, Oak to Smyth road.

Passed July 14.

Colby, West Hancock to Log.

Passed August 4.

Candia road, Mammoth road easterly to Revere ave.

Passed October 6.

## MISCELLANEOUS ORDERS.

Order to erect steel bridge across the Merrimack river on Granite street.

Passed April 27.

Order to concrete Nutfield Lane from Amherst to Concord.

Passed June 2.

Order to macadamize Chestnut street from Lake avenue to Valley cemetery.

Passed July 7.

Order to erect and equip a horse drinking-fountain at Amory and Hevey east back street.

Passed August 4.

Order to erect and equip a drinking-fountain west side of Elm near Bridge.

Passed August 7.

LIST OF APPROPRIATIONS.	Amount appropriated.	Amount expended.
Repairs highways .....	\$19,000.00	\$18,370.94
New highways.....	20,000.00	18,617.52
Watering streets.....	5,000.00	4,196.48
Paving streets.....	6,000.00	6,320.69
Macadamizing streets.....	20,000.00	19,848.48
Grade for concrete.....	5,000.00	5,035.82
Scavenger.....	16,000.00	14,991.10
City teams.....	6,000.00	6,285.70
Street sweeping.....	3,000.00	2,968.44
Street and park commission.....	4,000.00	3,712.03
Bridges.....	4,000.00	5,336.88
Repair of sewers.....	5,000.00	5,421.63
Christian Brook sewer.....	6,703.00	5,187.08
Silver-street sewer.....	15,000.00	16,124.13
* River road and Elm street sewers.....	15,000.00	9,302.43
† New sewers.....	40,437.83	41,015.68
Snow and ice.....	4,000.00	5,250.78
Widening Old Mammoth road.....	1,000.00	1,000.00
Commons.....	4,500.00	4,351.15
Stark and Derryfield parks.....	5,000.00	5,000.00
‡ New Granite bridge.....	131,228.00	137,755.73
Total.....	\$335,868.83	\$336,092.69

\* Includes \$1,703 balance 1893,  
 † Includes 437 " 1895,  
 ‡ Includes 1,228 from M. S. R. Co. }

Total expended in excess of appropriation, \$223.86.

## CONTRACTS.

Awarded to or agree- ment with	Contract, Material, or Location.	Date.	
Clarence R. Merrill.....	To furnish No. 1 clipped oats.....	January	6
A. H. Chadbourne Co....	To furnish shrubs.....	February	29
Warren Harvey.....	Cesspool, edgestone.....	April	3
W. F. Head & Son.....	Sewer brick.....		3
C. H. Hutchinson Co....	Iron castings.....		3
Henry W. Parker.....	Cement.....		3
A. C. Wallace .....	Spruce bracing .....		3
Thomas A. Lane Co.....	Sewer pipe.....		3
Manchester H. & L. Co..	Sewer pipe.....		3
Head & Dowst Co.....	Bridge plank.....		3
A. H. Chadbourne Co....	To furnish trees .....		3
Groton Bridge Co.....	Superstructure new bridge.....		30
Charles A. Bailey.....	Stone for new bridge.....		30
Charles H. Robie Co....	Concreting Chestnut street.....	June	20
J. T. Underhill Co.....	Concreting Chestnut street.....		20
Webster & Moore.....	Building Beech street extension..	October	24
Charles A. Bailey.....	Block paving.....	November	1
Clemens Langer.....	Iron railing, to approaches new bridge.....		6

## PERMITS TO ENCUMBER.

Given to	Location.	Date, 1896.
J. H. Cram.....	Young road.....	Jan. 6
D. J. Adams.....	98 Pennacook street.....	3
John E. Towle & Co...	Elm west back.....	March 18
William C. Preston....	317 Pine street.....	April 3
J. C. Quimby.....	727 Beech street.....	18
E. R. Dufresne & Co....	Cedar and Union.....	20
Smith & Platts.....	River road.....	23
J. A. Jackson.....	203 Merrimack street.....	25
S. T. Worthen.....	Elm at Weeks block.....	28
Bixby & Wilson.....	A street.....	29
Albert J. Sawyer.....	Auburn street.....	May 1
Mary Mullen.....	1736 Cedar street.....	11
Jas. H. Mendell & Co..	Spruce and Union.....	14
A. L. Bixby.....	Hall and Spruce.....	18
Head & Dowst Co.....	Straw's block.....	18
S. T. Worthen.....	Pine street.....	20
Peter McQuillan.....	Belmont and Lake avenue.....	21
Ward Bros.....	Elm and Auburn.....	25
John Campbell.....	Belmont street.....	22
L. M. Aldrich.....	Manchester south back.....	27
D. M. K. Phillips.....	Central street.....	July 2
Fred M. Smith.....	Cedar and Pine.....	7
Postal Tel. & Cable Co.	Erect poles, Pine street.....	9
John Morrison.....	Cedar and Union.....	13
W. H. Plummer.....	Nutfield lane.....	14
S. T. Worthen.....	Ash street.....	15
James F. Brown.....	Brook street.....	18
Flint & Lewis.....	South Main street.....	28
Stark Mills.....	Bridge street.....	29
Fred Smith.....	Salmon street.....	Aug. 5
Merrimack Elec. Co...	Erect poles, River road.....	5
N. W. Page.....	Lake avenue and Milton.....	8
Thomas Shea.....	78 Lowell street.....	12
J. H. Mendell & Co....	331 Merrimack street.....	26
Stark Mills.....	Spring street.....	Sept. 5
F. L. Flanders.....	Spruce street.....	10
James Collity.....	North street.....	22
N. W. Page.....	Milton and Lake avenue.....	Nov. 11
Charles M. Floyd.....	Elm street.....	17
Mead, Mason & Co.....	Main street.....	17
Peter Rogers.....	Cedar street.....	18
Flint & Lewis.....	Birch street.....	Dec. 17
Union Pub. Co.....	Hanover street.....	24

NOTE.—A bond of \$500 being filed with city clerk in each case when permit is granted.

## STREETS TURNPIKED WITH ROAD MACHINE.

Appleton.....	1,000 feet.
Adams.....	1,200
Ash, Brook to Harrison.....	300
Ash, Harrison to Myrtle.....	500
Bay, Webster to Sagamore.....	1,500
Blodget, Elm to Union.....	900

Brook, Pine to Ash.....	1,000 feet.
Beech, Gore to Sagamore.....	300
Beech, Gore to Myrtle.....	1,000
Brook, Elm to Pine.....	800
Beech, Prospect to Harrison....	400
Brook, Maple to Ash.....	250
Beech, Nutt road to top of Beech	6,000
Clarke.....	1,600
Chestnut.....	1,200
Chestnut, Pennacook to Brook..	300
Elm, Clarke to Sagamore.....	3,500
Elm, Clarke to Reform School....	3,500
Elm, railroad bridge to Brown ave.....	1,700
Gore, Union to Ash.....	500
Gore, Beech to Smith road.....	1,500
Hazel, Brook to Harrison.....	600
Harrison, Elm to Union.....	1,000
Harrison, Union to Maple.....	1,000
Harrison, Maple to Russell.....	600
Hooksett road, Webster to Hook- sett line.....	6,800
Hall, East High to Bridge.....	300
Kennard road, between Smith and Mammoth road.....	3,000
Liberty.....	800
Munroe.....	500
Maple, Gore to Myrtle.....	1,200
Maple, Valley to Silver.....	1,500
North, Bay to Elm.....	700
North River road.....	3,000
North River road, Reform School to Union street.....	7,000
North River road, Union to Hook- sett line.....	4,000

Oak, Harrison to Myrtle.....	500 feet.
Pine.....	1,400
Pennacook, Elm to Union.....	900
Pine, Brook to Salmon.....	900
Pine, Prospect to Brook.....	600
Prospect, Elm to Union.....	1,000
Prospect, Union to Russell.....	1,350
Prospect, Linden to Hall.....	600
Pine, Cedar to Valley.....	1,000
Ray.....	400
Russell, Harrison to Gore.....	600
Salmon.....	900
Sagamore, Elm to Bay.....	200
Sagamore, Chestnut to Walnut..	1,600
Salmon, Pine to Walnut.....	500
Salmon, River road to Elm.....	800
Sagamore, Pine to Walnut.....	400
Smith road.....	5,000
Titus avenue, Beech west.....	800
Trenton, River road to Union....	2,000
Union.....	1,800
Union, Salmon to Brook.....	900
Union, Myrtle to Brook.....	800
Union, Hooksett line to Clarke..	10,000
Union, between Cedar and Spruce	300
Webster.....	2,100
Walnut, Brook to Salmon.....	900
Walnut, Brook to Myrtle.....	800
Walnut, Webster to Salmon....	1,000
Webster, Hooksett road to Smith road.....	5,000

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Total..... 106,000 ft., or 20.09 ms.

Labor for this work charged to repairs of highways.

## STREETS GRAVELED.

Beech, railroad to Mitchell.

Baker, Nutt road to railroad.

Calef road, near Pine Grove cemetery.

Calef road, east of Pine Grove cemetery.

Elm, Valley south to Brown ave.

Gore.

Hooksett road.

Myrtle.

Nutt road, Railroad bridge east.

Prospect and Linden.

Smith road.

Webster.

1,300 loads of gravel used; labor charged to repairs of highways.

## NEW CULVERTS.

LOCATION.	Length in feet.	Width in feet.	Labor.
Ray street, over Ray brook.....	68	15	\$78.00
Union street, over Ray brook.....	68	16	283.96
Beech street (pipe culvert).....	48	.....	14.80
Total.....	184	.....	\$376.76

## REPAIRED CULVERTS.

Calef road, labor.....	\$32.00
Elm, near Ray brook.....	358.22
Lincoln.....	128.00
Wilson, near Valley.....	98.40
Total.....	\$616.62

## STREETS.

We will make mention in this portion of our report of some of the most important permanent improvements made upon our streets the past season.

Built Carpenter street, Elm to Union, 1,400 feet; Maple, Valley to Silver, 1,500 feet; Sagamore, Oak to Smith road, 1,300 feet; Shasta, Beech east 1,200 feet; Wilson, East Spruce to Valley, 1,750 feet; Ray, Appleton to Clarke, 600 feet; Hevey, Amory to Wayne, 350 feet; Hevey, Kelly to Amory, 660 feet; Kelly, 3,113 feet; all the above were built to grade.

Bridge-street extension from Mammoth road to Hanover road widened and graded 7,000 feet. Extension of Beech street at junction of River road, 1,200 feet. Mammoth road from Bridge street north, 2,000 feet.

Retaining wall on Mast street built, using 415 perch of stone.

Two culverts, 6 x 6, built at Ray and Union streets over Ray brook. Total amount expended on new streets, \$19,617.52.

Macadamizing North Main street from Adams to Putnam, 3,412 cubic yards stone used. Auburn, Elm to Chestnut, 600 feet, 2,266 square yards; Central, Maple to Hall, 1,825 feet, 6,896 square yards; Concord, Union to Ash, 800 feet, 3,211 square yards; Elm, Pennacook to Webster, 1,900 feet, 5,277 square yards; Merrimack, Chestnut to Union, 800 feet, 3,200 square yards; Wilson, 1,840 feet, 6,951 square yards; repaired Bridge, Elm to Canal, Dean street, and Myrtle street, a distance of 1,150 feet, 5,954 square yards. 4,025 loads of crushed stone used in general repairs upon our streets, at a total cost of \$19,848.48.

There has been put in 12,801 square yards of cobble gutters; 1,265 loads of paving used. 6,542 feet of new fencing built, two rails high.



The amount of new concrete laid in street crossings and streets is 8,760 square yards, at a cost of \$4,846.65.

The above in tabulated form appears under the several respective heads.

The views of the commissioners cannot be better expressed than by quoting from His Honor the Mayor's inaugural address, delivered before the city councils, January 5, 1897.

"In common with nearly every city and town in the United States, Manchester is vitally interested in the subject of good roads, and in the adoption of a more efficient, economical, and equitable system of highway improvements. It has become the fashion in this city for certain classes of people to denounce in a wholesale manner the condition of our streets and roads, and to bitterly criticise our street department for not making them better. For one, I believe that a large share of this criticism is undeserved, and is the result either of ignorance or malice. As a class, our streets and roads are fairly good, and will stand comparison with those of other cities which have the same or similar conditions of native soil and rock to deal with. Ours is a loose and sandy soil, and our native rock has been proven unfit for road building except for purpose of ballast. Not until the street commissioners adopted the policy of sending elsewhere for a top dressing for our streets, was the work of macadamizing successfully accomplished. Since the advent of the Salem trap rock the streets of Manchester have shown great improvement, and as the commissioners and the public are well satisfied with the present system of building a macadam road, it is likely to be continued with increasing favorable results. In macadamizing streets under the new process, a ballast consisting of native broken stone taken from the stone crusher, is laid about twelve inches deep, and on top of this is placed trap rock

to the thickness of about four inches, and the whole rolled down by the city road-roller, weighing eighteen tons. Samples of this kind of road-building may be found in various parts of the city, and where the work has been thoroughly done, the streets are in a most excellent condition.

“Aside from an inferior quality of soil and rock, Manchester is poorly provided with a first-class quality of gravel, an essential quantity in good road building. So, in many ways, the conditions here are largely against the best roads, and when such are built, they are very expensive.

“If Manchester was provided, as some cities are, with an abundance of good material for good roads, the problem of building them would be an easy one; but as she is not, the officials of our street department have to do the best they can with the material at their command; and by buying the rest from other sections according to the means placed at their disposal.

“It is an easy matter to criticise the condition of our streets; but did you ever stop to consider that there are 200 miles of streets and roads within our city limits that call for the attention of our street department? If you have, then you will understand why Manchester has not a larger percentage of good streets, and a smaller percentage of poor ones. Herein lies the fundamental reason for so many bad streets and roads,—we have too many of them laid out.”

## NEW STREETS GRADED.

LOCATION.	Length in feet.	Cut or fill.	Labor.
Ashland .....	262	Both.....	\$100.75
Carpenter, Elm to Union .....	1,400	" .....	951.86
Laurel, from Belmont .....	200	" .....	*
Milton, from Laurel .....	300	" .....	522.20
Maple, Valley to Silver .....	1,500	Cut .....	155.50
Ray, Appleton to Clarke .....	600	Both.....	311.50
Summer, west Beech .....	150	Cut .....	30.00
Sagamore, Oak to Smyth road .....	1,300	Both.....	980.50
Salmon, Walnut to Beech .....	150	" .....	198.75
Shasta, Beech east .....	1,200	Cut .....	560.00
Wilson, East Spruce to Valley .....	1,750	Both.....	453.50
Total .....	8,812	.....	\$4,164.56

## SUMMARY.

Total cost for labor for new highways, culverts, etc., including all the divisions.....	\$16,900.05
Covering stone for culverts .....	336.35
Paving stone and curbing .....	982.63
Hardware .....	69.78
Concrete .....	107.15
General incidentals .....	68.75
Fencing and railing .....	152.81
Total .....	\$18,617.52

\* Labor included in Milton street.

† Turupiked with road-machine.

## NEW MACADAMIZING.

LOCATION.	Length in feet.	Square yards.	Crushed stone.	Other stone.	Labor.
Auburn, Elm to Chestnut.....	600	2,266	450	.....	\$1,020.80
Central, Maple to Hall.....	1,825	6,896	1,180	.....	2,046.53
Coneord, Union to Ash.....	800	2,845	325	.....	858.75
Chestnut, Lake avenue south.....	850	3,211	500	12	1,005.00
Elm, Webster to Pennacook.....	1,900	5,277	1,060	84	2,003.80
Manchester B. S., Chestnut east ...	100	222	50	.....	90.00
Merrimack, Chestnut to Union.....	800	3,200	650	.....	1,674.51
North Main, Putnam to Adams.....	1,275	3,412	846	96	1,272.25
Wilson.....	1,840	6,951	1,350	250	2,315.17
Total.....	9,990	34,280	6,411	442	\$12,376.81

## REPAIRED MACADAMIZING.

LOCATION.	Length in feet.	Square yards.	Crushed stone.	Labor.
Bridge, Canal to Elm.....	700	4,200	350	\$775.00
Dean, Elm west.....	250	1,000	200	255.00
Myrtle, from Elm.....	200	754	150	203.58
General repairs.....	.....	.....	4,023	2,746.69
Total. ....	1,150	5,954	4,723	\$3,980.27

Crusher was run from April 13 to November 16; average number of loads crushed each day was 49.

Number of loads used for new macadamizing, 6,411; and 4,768 loads used on repairing.

## SUMMARY.

Incidentals.....	\$364.61
Stone chips.....	547.75
Salem stone.....	623.00
Coal, coke, oil, wood.....	350.98
Forcite powder.....	934.16
Repairs on crusher, roller, drills.....	550.98
Repairs on concrete crossings.....	89.92
Water-Works.....	30.00
Labor.....	16,357.08
Total.....	\$19,848.48

## PAVING STREETS.

LOCATION.	Sq. yds.	No. loads.	Cost of stone.	Cost of labor.
Ashland, Arlington south.....	223	23	\$40.25	\$41.60
Auburn, Elm to Chestnut.....	448	30	52.50	68.80
Belmont and Amherst.....	272	35	61.25	54.00
Bridge, east of Ashland.....	24	3	5.25	6.50
Belmont and Old Bridge.....	54	7	12.25	11.30
Brook, between Union and Walnut....	88	9	15.75	17.50
Concord, Union to Ash.....	544	58	101.50	104.50
Chestnut, Cedar to Auburn.....	156	16	28.00	35.75
Concord, east of Maple.....	27	2	3.50	5.30
Elm, Sagamore to North.....	327	38	66.50	64.00
Harrison, Union west.....	252	30	52.50	36.50
Hazel, Harrison north.....	233	28	49.00	32.55
Hanover and Ashland.....	21	2	3.50	5.00
Lowell and Malvern.....	12	2	3.50	3.25
Lake avenue, Hall to Beacon.....	564	65	113.75	106.40
Laurel and Milton.....	241	32	56.00	88.00
Laurel, Maple east.....	111	11	19.25	35.50
Lowell, east of Ashland.....	13	2	3.50	2.75
Maple to Hall on Central.....	1,303	135	236.25	201.20
Malvern and East High.....	291	30	52.50	56.80
Manchester and Hall.....	33	4	7.00	7.50
Manchester, between Union and Beech	1,200	50	87.50	195.50
Manchester, bet. Lincoln and Wilson..	106	11	19.25	15.50
Merrimack, Chestnut to Union.....	584	48	84.00	90.50
Pine to Union, on Sagamore.....	350	15	26.25	63.80
Prospect and Union.....	175	20	35.00	28.50
Russell to Linden, on Myrtle.....	165	17	29.75	35.25
Russell, bet. Prospect and Myrtle.....	88	11	19.25	20.00
Union, Salmon to North.....	51	5	8.75	6.50
Union, south of Sagamore.....	39	.....	.....	5.50
Wilson, East Spruce to Valley.....	1,250	150	262.50	209.10
Total.....	9,245	889	\$1,555.75	\$1,744.85

## PAVING RELAID.

Elm, near New City Hotel.....	188 sq. yds.
Elm, near Ray brook.....	12 "
Elm, near Bridge.....	76 "
Hall and Manchester.....	34 "
Lake avenue, between Pine and Union.....	113 "
Lake avenue, between Canton and Cass...	83 "
Lowell street.....	46 "
Spruce and Hall.....	7 "

Total..... 559 sq. yds.

Labor, \$75.25.

## GRADE FOR CONCRETE.

LOCATION.	Length in feet.	Width in feet.	Cut or fill.	Labor.
Appleton and Chestnut .....	100	8	Fill...	\$12.50
Auburn, Beech and Maple .....	50	8	" ...	10.00
Belmont, south Concord.....	200	8	" ...	20.00
Beech and Harrison.....	100	8	Cut...	17.00
Bridge, near Hall.....	50	8	Fill...	10.00
Brook and Ash.....	200	8	Cut...	28.00
Belmont, north Bridge.....	200	8	" ...	36.00
Belmont and Pearl.....	100	8	Both..	14.50
Calef road, near cemetery.....	865	8	Fill...	122.00
Carpenter, Elm to Union.....	2,800	8	Both..	544.00
E. Spruce, Valley on Wilson.....	3,500	8	" ...	164.00
Elm, north Clarke.....	100	16	" ...	24.50
Grove and Union.....	150	8	" ...	9.00
Harvard and Pine .....	100	8	Fill...	17.00
Lake avenue, Belmont west.....	300	8	" ...	22.00
Lake avenue, east Hall.....	200	8	" ...	40.00
Lake avenue, east Belmont .....	400	8	" ...	20.00
Lake avenue, No. 605.....	175	8	Cut...	21.00
Lake avenue and Belmont.....	200	8	" ...	30.00
Milton and Laurel, north side.....	375	8	" ...	50.00
Milton and Laurel, south side.....	275	8	Both..	65.00
Merrimack and Hall .....	200	8	Fill...	12.00
North and Walnut.....	50	8	" ...	10.00
North Union, near Carpenter.....	520	8	Both..	243.00
Old Bridge, northeast to Belmont.....	400	8	" ...	58.00
Orange, between Linden and Hall.....	150	8	Cut...	25.25
Pearl and Belmont.....	50	8	Fill...	9 25
Pine, south North .....	75	8	" ...	16.00
Pine, Salmon and North.....	500	8	" ...	72.00
South Elm, south railroad bridge.....	500	8	" ...	40.00
Salmon and Liberty.....	150	8	Both..	97.00
Union and Bridge.....	400	8	Fill...	12.00
Union, south Webster .....	200	8	Both..	37.00
Union, north Appleton .....	275	8	Fill...	32.75
Walnut, north Salmon.....	200	8	" ...	25.50
Total.....	14,110	.....	.....	\$1,964.25

## FENCING.

Arlington street.....	145 feet
Everett street.....	300 "
Elm, near Carpenter.....	278 "
Gore east to Russell.....	583 "
Nutt road.....	720 "
Pennacook street.....	48 "
Prospect east to Russell.....	250 "
Ray, near Ray brook.....	185 "
Sagamore, between Elm and Chestnut.....	480 "
Union, near Ray brook.....	83 "

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Total..... 3,072 feet

NOTE.—Labor on above charged to repairs of highways.

## EDGESTONES SET.

Location.	Feet.
Appleton and Chestnut.....	30
Ash and Concord.....	48
Ash and Brook.....	16
Auburn, east of Wilson.....	40
Auburn, between Pine and Chestnut.....	100
Brook and Walnut.....	17
Belmont and Amherst.....	16
Belmont and Laurel.....	16
Beech and Sagamore.....	16
Bridge and Belmont.....	16
Beech and Orange.....	16
Bridge and Maple.....	16
Bridge and Russell.....	17
Bridge and Russell.....	16
Bridge and Maple.....	40
Blodget and Union.....	8

Beech and Orange.....	48
Beech and Concord.....	50
Clarke and Chestnut.....	18
Concord and Ashland.....	26
Clarke and Chestnut.....	16
Central and Wilson.....	16
Cedar and Union.....	200
Carpenter, Elm to Union.....	148
Cedar south back and Union.....	63
Elm and Baker.....	24
Elm and Webster.....	20
Granite.....	146
Hanover and Hall.....	18
Harrison and Hazel.....	53
Hall and Laurel.....	34
Hall and Spruce.....	14
Lake avenue, between Pine and Union.....	100
Laurel and Milton.....	32
Lake avenue and Belmont.....	16
Lowell and Malvern.....	18
Linden and Prospect.....	18
Lake avenue and Beacon.....	16
Lowell and Birch.....	17
Lowell and Birch.....	24
Lake avenue and Beacon.....	18
Lowell, east of Ashland.....	32
Lincoln and Central.....	45
Milton and Laurel.....	36
Maple, near Nashua.....	25
Maple and Bridge.....	32
Manchester and Hall.....	100
Maple and East High.....	52
Malvern and East High.....	36
Manchester and Maple.....	16
Merrimack and Chestnut.....	100



Orange and Pine.....	13
Orange and Walnut.....	16
Pine and Prospect.....	16
Pine and Amherst.....	14
Pine, near Lowell.....	60
Pine and Cedar.....	162
Spruce south back on Union.....	41
Salmon and Walnut.....	32
Sagamore and Union.....	150
Shasta.....	50
Salmon and Liberty.....	16
Union and Grove.....	24
Union and Green.....	18
Union and Grove.....	30
Union, between Salmon and North.....	103
Union and Spruce.....	200
Walnut and Orange.....	18
Wilson and Valley.....	202
Wilson, between Summer and Cedar.....	215
Walnut and Bridge.....	52
Walnut and Concord.....	62
Total.....	3,551

## EDGESTONES RESET.

Location.	Feet.
Auburn, west of Chestnut.....	136
Elm south back at Lowell.....	61
Granite.....	325
Lincoln and Central.....	50
Total.....	572

Total cost for labor of foregoing work, \$388.30; an average cost of \$0.094 per foot.

## CONCRETE WORK.—J. T. UNDERHILL CO.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amory and Dubuque .....	90.67	\$0.75	\$68.00
Amory and Columbus.....	30.22	.75	22.66
Amory and Hevey east back.....	17.33	.75	13.00
Amory and Hevey .....	30.22	.75	22.66
Bridge and Maple.....	62.22	.75	46.66
Clarke and Chestnut.....	62.22	.75	46.66
Cedar and Maple.....	29.33	.75	22.00
Elm and Welch avenue.....	55.56	.75	41.67
East High and Belmont.....	57.78	.75	43.33
Elm near Brown avenue .....	56.00	.75	42.00
Elm and Clarke .....	88.00	.75	66.00
Gore and Walnut.....	30.22	.75	22.66
Hayward and Jewett.....	32.89	.75	24.66
Hayward and Prout avenue.....	20.44	.75	15.33
Hosley avenue and Summer.....	25.00	.75	18.75
Milton and Laurel.....	62.00	.75	46.50
Milton and Laurel.....	17.33	.75	13.00
Milton and Lake avenue.....	18.67	.75	14.00
Milton.....	32.89	.75	24.66
Merrimack and Pine.....	89.06	.75	66.79
Orange and Beech.....	56.89	.75	42.66
Orange and Walnut.....	62.04	.75	46.53
Pine and Prospect south back .....	17.78	.75	13.33
Pine and Prospect.....	38.22	.75	28.66
Pearl and Walnut.....	28.00	.75	21.00
Pearl and Warren.....	28.44	.75	21.33
Prospect and Linden.....	58.67	.75	44.00
Salmon and Union.....	28.89	.75	21.66
Salmon and Liberty east back.. ..	17.77	.75	13.33
Sagamore and Walnut.....	61.33	.75	46.00
Wilson and Bell.....	30.22	.75	22.66
Wilson and Grove south back.....	17.74	.75	13.33
Wilson and Grove.....	30.22	.75	22.66
Wilson and Green south back.....	16.89	.75	12.66
Wilson and Green.....	30.22	.75	22.66
Wilson and Summer south back.....	16.89	.75	12.66
Wilson and Summer.....	30.22	.75	22.66
Wilson and Auburn south back.....	16.89	.75	12.66
Wilson and Auburn.....	30.22	.75	22.66
Wilson and Cedar south back... ..	16.89	.75	12.66
Wilson and Cedar.....	30.22	.75	22.66
Wilson and Spruce.....	60.44	.75	45.33
Wilson and Auburn.....	5.78	.75	4.33
Total.....	1,668.92	.....	\$1,251.58

## SIDEWALKS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Milton.....	180.59	\$0.35	\$63.20
Wilson, south Spruce.....	17.77	.45	7.99
Total .....	198.36	.....	\$71.19

## CROSSINGS AND SIDEWALKS REPAIRED.

LOCATION.	Square yards.	Price per yd.	Total cost.
Bridge and Union.....	27.11	\$0.37	\$10.03
Bridge and Union, east back..	17.78	.37	6.58
Bridge and Maple.....	63.56	.37	23.51
Bridge and Maple.....	24.47	.45	11.01
Clarke and Chestnut.....	3.90	.45	1.75
Hallsville schoolhouse.....	28.39	.37	10.50
Lake avenue and Pine.....	28.89	.37	10 68
Milton and Lake avenue.....	46.56	.35	16.29
Orange and Pine .....	84.71	.37	31.34
Orange and Pine .....	10.56	.45	4.75
Sagamore and Walnut.....	11.61	.45	5.22
Total.....	347.54	.....	\$131.66

## ROADWAYS RE-COVERED.

LOCATION.	Square yards.	Price per yd.	Total cost.
Chestnut, Hanover to Manchester.....	1,106.47	\$0.50	\$553.24
Concord.....	352.85	.50	176.43
Total .....	1,459.33	.....	\$729.67

## SUMMARY.

*Concrete Work by J. T. Underhill Co., Street and Park Commission Department.*

	Square yards.	Total cost.
New crossings.....	1,668.92	\$1,251.58
New sidewalks .....	198.36	71.19
Crossings and walks repaired.....	347.54	131.66
Roadways recovered.....	1,459.33	729.67
Total .....	3,674.15	\$2,184.10

## CONCRETE WORK.—CHARLES H. ROBIE CO.

## STREET CROSSINGS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amory and Beauport.....	29.70	\$0.75	\$22.27
Appleton and Chestnut.....	84.71	.75	63.53
Beacon and Manchester.....	20.00	.75	15.00
Brook and Union.....	29.33	.75	22.00
Belmont and Amherst.....	20.22	.75	19.66
Bridge and Walnut.....	61.78	.75	46.33
Beech and Myrtle.....	8.00	.75	6.00
Bath and Third.....	36.44	.75	27.33
Central and Wilson.....	27.56	.75	20.67
Central and Lincoln.....	55.56	.75	41.67
Concord and Walnut.....	40.00	.75	30.00
Concord and Beech.....	31.83	.75	23.87
Concord and Ash.....	18.67	.75	14.00
Coolidge avenue and Amory.....	34.60	.75	25.95
Elm at Bakersville school.....	30.00	.75	22.50
Harrison and Beech.....	15.11	.75	11.33
Harrison and Walnut east back.....	17.33	.75	13.00
Lowell and Belmont.....	56.90	.75	42.67
Lake avenue and Belmont.....	30.00	.75	22.50
Lake avenue west of Hall.....	9.00	.75	6.75
Lowell and Malvern.....	28.78	.75	21.58
Milford and Tilton.....	7.94	.75	5.95
North and Elm.....	15.97	.75	11.97
North and Bay.....	30.20	.75	22.65
Russell and Harrison.....	30.20	.75	22.65
Russell and Harrison.....	28.40	.75	21.30
Sagamore and Walnut.....	53.33	.75	40.00
Salmon and Walnut.....	30.22	.75	22.66
South Elm, at engine-house.....	35.44	.75	26.58
Summer and Hall.....	32.44	.75	24.33
South Main and A.....	42.00	.75	31.50
Union and Grove south back.....	17.33	.75	13.00
Union and Green.....	16.89	.75	12.66
Walnut and Orange.....	3.56	.75	2.67
Walnut and Myrtle.....	9.78	.75	7.33
Wilton and Cartier.....	17.78	.75	13.33
Total .....	1,056.90	.....	\$797.19

## SIDEWALKS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Auburn.....	23.57	\$0.35	\$8.25
Amory, Coolidge avenue to Beauport.....	127.08	.35	44.48
Bridge and Elm.....	2.00	.40	.80
Concord common .....	300.10	.50	.....
Concord common .....	81.28	.35	178.49
Harrison and Beech.....	80.22	.40	32.08
Lake avenue engine house.....	25.00	.40	10.00
No. 224 Laurel .....	7.20	.50	3.60
Peter McQuillan's.....	98.00	.35	34.30
Total .....	744.45	.....	\$312.00

## CROSSINGS AND SIDEWALKS REPAIRED.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amory and Beanport.....	10.60	\$0.50	\$5.30
Beech and Myrtle.....	28.89	.37	10.68
Beech and Orange.....	35.11	.37	12.99
Bridge and Walnut.....	31.61	.45	14.22
Bridge and Walnut.....	61.78	.37	22.85
Brook and Union.....	25.44	.35	8.90
Brook and Union.....	58.84	.37	21.77
Central and Hall.....	28.00	.37	10.36
Central and Hall.....	2.78	.45	1.25
Central and Wilson.....	12.84	.25	3.05
Central and Lincoln.....	20.00	.37	7.40
Central and Lincoln.....	22.11	.25	5.52
Concord and Beech.....	28.78	.37	10.64
Concord and Ash.....	10.67	.37	3.94
Concord and Walnut.....	56.27	.37	20.82
Elm at Christian brook.....	37.78	.25	9.44
Elm at Christian brook.....	12.89	.40	5.15
Elm and Webster.....	3.50	.75	2.62
Granite and Second.....	27.44	.37	10.15
Granite bridge approaches.....	214.30	.37	107.15
Harrison and Beech.....	51.56	.37	19.07
Market and Elm west back.....	28.00	.37	10.36
Myrtle and Ash.....	66.22	.37	24.50
McGregor at mill entrance.....	6.67	.37	2.46
Milford and Tilton.....	7.94	.37	2.93
Orange and Beech.....	32.89	.37	12.16
Salmon and Walnut.....	7.56	.37	1.89
Walnut and Orange.....	11.56	.37	4.27
Walnut and Myrtle.....	12.00	.37	4.44
Total .....	953.41	.....	\$377.28

## ROADWAYS RE-COVERED.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amherst.....	14.25	\$0.50	\$7.12
Chestnut, Hanover to Amherst.....	1,105.67	.50	552.89
Chestnut, near the common.....	118.56	.50	59.28
Hanover.....	18.00	.50	9.00
Nutfield lane.....	10.00	.50	5.00
North Main at engine-house.....	174.44	.50	87.22
Union.....	761.19	.50	380.60
Union and Central south back.....	20.94	1.00	20.94
West Merrimack.....	108.06	.50	54.03
Total .....	2,331.11	.....	\$1,176.08

## SUMMARY.

*Concrete Work by Charles H. Robie Co., Street and Park Commission Department.*

	Square yards.	Total cost.
New crossings.....	1,056.90	\$797.19
New sidewalks.....	744.45	312.00
Crossings and walks repaired.....	953.41	377.28
Roadways recovered.....	2,331.11	1,176.08
Total.....	5,085.87	\$2,662.55

## STONE.

Paid F. S. Bodwell, covering-stone.....	\$80.75
Warren Harvey, covering-stone.....	73.60
Warren Harvey, circles, cesspool stone..	1,388.39
Charles A. Bailey, covering-stone.....	438.00
Charles A. Bailey, pinners.....	290.00
Charles A. Bailey, stone for new bridge	10,233.97
Charles A. Bailey, paving stone.....	1,042.63
J. H. Coburn, cobble stone.....	1,212.75
Palmer & Garmon.....	13.06
Brooks & Brock, cobble stone.....	18.50
John McCarty, cobble stone.....	9.00
Total.....	\$14,800.65

## SNOW AND ICE.

*Receipts.*

'Appropriation.....	\$4,000.00
Transferred from repairs of high- ways.....	941.84
Transferred from reserved fund..	308.94
	<hr/>
	\$5,250.78

*Expenditures.*

Labor, January draft.....	\$1,068.67	
February draft.....	1,695.42	
March draft.....	1,731.13	
April draft.....	177.74	
December draft.....	308.94	
Bills for sand and supplies.....	68.88	
Paid for snow plows.....	200.00	
	<hr/>	\$5,250.78

## REPAIRED CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Concord, Union to Beech.....	5	\$7.47	\$7.25
Cedar and Union.....	2	8.62	4.50
Cedar and Union.....	2	12.48	5.00
Elm, near Concord.....	1	1.12	1.50
Hanover and Chestnut.....	1	7.17	5.00
Lake avenue, near Pine.....	1	3.15	6.75
Lake avenue, near Becch.....	1	1.42	1.50
Manchester, east of Union.....	1	9.20	5.00
Salmon and Elm.....	2	5.47	4.00
Spruce, east of Union.....	1	7.97	4.25
Union and Lake avenue.....	1	8.68	3.00
Total.....	18	\$72.75	\$47.75

## REPAIRED SEWERS.

LOCATION.	Cost of material.	Labor.
Chestnut back, corner Cedar.....	\$2.11	\$14.25
Elm, near Ray Brook.....	12.95	6.00
Hall and Merrimack.....	1.73	8.50
Total.....	\$16.79	\$28.75

## NEW CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Auburn back, near Maple.....	1	\$13.33	\$7.50
Amherst, between Hall and Belmont.....	1	13.38	6.50
Arlington and Morrison.....	1	13.69	5.75
Amherst and Lincoln.....	1	12.08	3.50
Bridge and Belmont.....	4	57.24	40.00
Bridge, east of Walnut.....	1	14.39	6.50
Beech and Gore.....	2	25.42	8.50
Belmont and Amherst.....	1	14.39	10.00
Belmont and Hall.....	1	16.06	7.00
Belmont and Lake avenue.....	1	14.94	6.50
Bridge and Walnut.....	1	10.50	4.50
Bridge and Maple.....	2	26.49	12.50
Clarke, near Chestnut.....	1	15.70	6.75
Cedar back, near Lincoln.....	1	11.51	6.75
Central and Hall.....	1	16.50	6.50
Concord and Union.....	1	13.47	7.00
Concord and Nashua.....	1	10.05	7.00
Concord and Beech.....	2	27.30	15.00
Concord and Walnut.....	1	10.79	6.50
Chestnut, between Cedar and Auburn.....	4	60.53	26.80
Cheney Place.....	1	14.09	8.00
Elm and North.....	1	60.16	38.00
Elm and Sagamore.....	1	13.68	6.75
Elm and Salmon.....	1	31.35	13.00
Elm and Myrtle.....	1	13.09	6.50
Gore and Walnut.....	3	44.90	18.00
Hall and Manchester.....	1	13.09	8.00
Hall and Laurel.....	3	44.09	18.75
Hazel and Harrison.....	3	42.52	18.50
Harrison, near Elm.....	1	13.51	5.75
Hall, near Mead.....	2	26.65	14.25
Hall and Amherst.....	1	16.39	10.00
Laurel and Belmont.....	1	14.87	16.20
Laurel and Milton.....	4	62.09	50.00
Lake avenue, near Belmont.....	2	27.67	14.50
Lake avenue, east of Wilson.....	1	11.68	5.75
Lowell, near Birch.....	1	12.28	6.50
Lake avenue, near Pine.....	2	21.43	17.50
Lake avenue, rear of engine-house.....	1	13.79	6.50
Myrtle and Hall.....	2	25.81	13.00
Market, near City Hall.....	1	12.62	5.50
Myrtle and Walnut.....	2	47.42	39.50
Mead and Belmont.....	1	11.56	7.50
Malvern, south of Bridge.....	1	12.09	6.50
Merrimack and Wilson.....	1	14.00	6.50
Myrtle and Russell.....	1	17.24	7.50
Malvern and East High.....	2	34.21	13.00
Nutt road.....	1	15.90	9.75
North and Liberty.....	4	73.29	30.50
Orange and Walnut.....	1	16.94	12.00
Orange and Linden.....	2	30.41	17.00
Orange and Morrison.....	1	13.98	8.50
Prospect and Union.....	1	13.39	5.00
Pine and Harrison.....	1	13.98	5.50
Forward.....	82	\$1,249.83	\$680.75



NEW CESSPOOLS.—*Continued.*

LOCATION.	No.	Cost of material.	Labor.
Amount forward.....	82	\$1,249.83	\$680.75
Pearl and Hall.....	2	33.08	18.00
Pine and Sagamore.....	2	31.59	13.50
Russell and Myrtle.....	1	13.98	6.50
River road and Munroe.....	1	14.35	6.50
Salmon and Union.....	1	15.57	8.00
Union, near Grove.....	2	45.71	18.00
Union, near Ray Brook.....	2	31.75	11.50
Union and Grove.....	2	40.37	16.75
Wilson, between East Spruce and Valley.....	12	209.35	97.00
Wilson and Central.....	2	22.77	19.50
Walnut, near Gore.....	1	13.41	6.00
Walnut and Bridge.....	3	50.19	20.50
Total.....	113	\$1,771.95	\$922.50

## SEWERS.

There have been built 26,530 feet or 5 miles of new sewers the past year. Among the most important built as trunk sewers were the Silver street sewer, Christian brook sewer, River road sewer, Elm street sewer, Jewett street sewer, and Sagamore street sewer. The most of these sewers were built through solid ledge. Three steam drills were in constant use during the season. The total amount expended was \$66,408.87.

There will be a large demand for sewers for the year 1897. The total length of sewers voted in to date is 35,067 feet, or 6.6 miles. The orders recommended by the committee on sewers to be presented to the city councils contain 5,454 feet, or 1.03 miles, making a total of 40,521 feet, or 7.63 miles, at an estimated cost exceeding \$100,000.

This estimate does not include the demand that will be made on the city government for new sewers for the coming year.

## SEWERS BUILT

STREET.	LOCATION.	Material.	Size in inches.
Amherst.....	From east of Ashland easterly .....	Akron..	8
Auburn.....	From Canton easterly.....	" ..	10
Auburn south back....	From west of Maple easterly.....	" ..	10
Auburn south back....	From Wilson easterly.....	" ..	10
Beacon.....	From Spruce northerly .....	" ..	8
Beech.....	From Gore northerly.....	" ..	10
Beech.....	From Sagamore northerly.....	" ..	10
Beech east back.....	From south of Concord northerly....	" ..	10
Belmont.....	Mead to old Bridge.....	" ..	12
Canton.....	From south of Spruce to Auburn.....	" ..	12
Cedar .....	Wilson to Wilson east back.....	" ..	10
Cedar south back.....	Pine to west of Beech.....	" ..	15
Cedar south back.....	From Wilson east back easterly .....	" ..	10
Central south back....	Union to Beech.....	" ..	15&12
Central south back....	From east of Wilson easterly.....	" ..	12
Christian brook.....	Liberty east back to Beech east back.	Brick ..	42x63
Clarke .....	River road to Elm.....	" ..	24x36
Elm .....	Clarke to Thayer.....	" ..	22x33
Elm .....	Thayer.....	Akron..	15
Elm.....	From Clarke southerly.....	" ..	8
Elm west back.....	Christian brook to Salmon.....	" ..	10
Granite.....	At east end of bridge .....	Steel....	36
Granite.....	At east end of bridge.....	Brick...	36
Green south back.....	From Union westerly.....	Akron..	12
Green south back.....	From Union easterly.....	" ..	10
Grove.....	From west of Taylor westerly .....	" ..	10
Grove south back.....	From west of Union easterly.....	" ..	10
Jewett .....	From north of Young to Clay.....	" ..	15

IN 1896.—EAST SIDE.

Length in feet, new.	Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.
78	.....	.....	.....	1	.....	\$13.25	\$0.17	Oct. 3	Oct. 4
510	.....	1	2	21	.....	1,572.25	3.083	Nov. 28	.....
188	.....	.....	1	6	.....	165.58	0.827	Nov. 28	Dec. 1
515	.....	1	.....	19	1	513.27	1.00	June 30	July 15
198	.....	.....	.....	.....	.....	70.44	0.355	" 10	June 12
114	.....	2	.....	3	2	355.19	3.116	March 2	Mar. 26
306	.....	1	.....	8	.....	278.61	0.91	Oct. 7	Oct. 12
190	.....	1	.....	.....	.....	56.27	0.296	July 7	July 9
242	.....	1	.....	5	1	410.04	1.694	June 23	June 31
352	.....	1	.....	9	2	388.14	1.102	" 1	" 20
212	.....	1	.....	5	1	198.50	0.936	Sept. 17	Oct. 4
.....	894	3	.....	62	6	277.60	0.925	" 17	" 4
300	.....	1	.....	10	1	2,370.87	2.651	July 24	Sept. 16
.....	560	4	.....	32	3	899.23	1.606	April 27	May 9
92	2	1	.....	3	.....	82.28	0.872	Sept. 19	Sept. 23
1,010	.....	3	.....	.....	3	5,187.08	5.135	April 20	May 30
508	.....	2	.....	10	4	1,927.26	3.794	August 11	Dec. 30
462	.....	1	.....	16	.....	1,752.78	3.794	" 11	" 30
754	.....	2	.....	13	1	3,016.00	4.00	Sept. 17	" 30
182	.....	.....	.....	3	.....	34.48	0.189	.....	.....
606	.....	3	.....	14	.....	734.78	1.212	Sept. 16	Sept. 30
.....	39	.....	.....	.....	.....	592.27	6.966	.....	.....
.....	46	1	.....	.....	.....	.....	.....	.....	.....
104	.....	1	.....	.....	.....	150.20	1.444	.....	.....
498	.....	1	.....	19	.....	686.19	1.38	.....	.....
101	.....	1	.....	4	.....	137.02	1.356	June 22	July 3
324	.....	2	.....	10	3	468.37	1.446	Oct. 15	Oct. 27
877	.....	3	.....	36	3	3,635.13	4.145	April 20	June 12

## SEWERS BUILT IN 1896.

STREET.	LOCATION.	Material.	Size in inches.
Liberty east back.....	From Christian brook northerly.....	Akron..	10
Lincoln.....	From Silver northerly.....	" ..	8
Malvern.....	At Bridge.....	" ..	15
Mead.....	Hall to Belmont.....	" ..	12
Merrimaek south back	From Beech westerly.....	" ..	12
Old Bridge.....	From Belmont westerly.....	" ..	12
Pine.....	Anburn to Cedar south back.....	" ..	15
Porter.....	From Amherst northerly.....	" ..	10
Ray.....	From Ray brook northerly.....	" ..	10
River road.....	At Ray brook.....	Iron....	20
River road.....	Monroe to Clarke.....	Brick..	24x36
Sagamore.....	From east of Beech to Oak.....	Akron..	12
Silver.....	Union to Lincoln.....	Brick..	38x57
Union.....	From Appleton northerly.....	Akron..	8
Union east back .....	From Christian brook southerly .....	" ..	12
Union east back.....	Christian brook to Webster.....	" ..	12
Valley.....	From Wilson to east of Belmont.....	Iron....	20
Valley.....	From Wilson to east of Belmont.....	Akron..	20
Valley.....	From Jewett easterly.....	" ..	10
Walnut east back.....	From Christian brook southerly.....	" ..	10
Wilson.....	Valley to Prescott.....	" ..	12
Wilson .....	Prescott to Harvard.....	" ..	10
Wilson east back.....	Cedar to Cedar south back.....	" ..	10
Wilson Hill.....	Laurel to Merrimaek.....	" ..	10
Wilson Hill.....	Merrimaek northerly .....	" ..	10
Total.....	.....	.....	.....

— EAST SIDE.— *Continued*

Length in feet, new.	Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.
453	.....	1	1	14	.....	\$473.83	\$1.045	Sept. 21	Sept. 28
215	.....	.....	.....	.....	.....	38.02	0.180	August 15	Aug. 17
67	.....	1	.....	.....	.....	108.24	1.615	May 9	May 13
362	.....	1	1	9	1	655.56	1.811	Dec. 30	Jan. 18
148	.....	1	.....	3	1	163.14	1.102	Sept. 16	Sept. 22
135	.....	.....	1	2	2	127.62	1.021	" 26	" 29
142	.....	1	.....	.....	.....	336.54	2.37	July 24	" 16
260	.....	2	.....	10	3	149.89	0.576	May 11	May 14
504	.....	2	.....	21	.....	475.43	0.943	April 17	April 25
24	.....	.....	.....	.....	}	2,606.39	3.794	August 11	.....
663	.....	4	.....	14					
829	.....	3	.....	27	8	2,617.17	3.157	June 12	Aug. 6
1,788	.....	3	.....	52	5	16,124.13	9.018	May 20	" 15
150	.....	.....	1	3	.....	79.50	0.530	Sept. 26	Sept. 29
350	.....	.....	1	13	.....	565.00	1.615	June 13	Aug. 12
607	.....	2	.....	20	2	942.54	1.552	" 13	" 12
12	.....	.....	.....	.....	}	2,400.63	2.304	May 14	June 12
1,030	.....	2	1	29					
300	.....	1	.....	9	.....	229.00	0.763	" 5	May 7
410	.....	.....	1	12	.....	445.71	1.087	Nov. 16	Nov. 23
807	.....	3	.....	25	7	779.02	0.965	Oct. 19	" 10
336	.....	1	.....	11	4	294.80	0.877	" 19	" 10
126	.....	1	.....	3	.....	106.27	0.843	" 3	Oct. 5
257	.....	2	.....	5	.....	400.14	1.557	" 1	" 7
250	.....	.....	.....	3	.....	35.94	0.144	.....	.....
18,938	1,541	69	10	594	73	\$56,127.59	.....	.....	.....

## SEWERS BUILT IN

STREET.	LOCATION.	Material.	Size in inches.
Amherst road.....	Mast to south of Carroll.....	Akron..	24
Amherst road.....	South of Carroll southerly.....	" ..	10
B.....	From C northerly.....	" ..	10
Boynton.....	C to McDuffie.....	" ..	15
Carroll.....	From Amherst road southerly.....	" ..	10
Cartier east back.....	From Putnam southerly.....	" ..	10
Conant.....	From west of Cartier westerly.....	" ..	10
Dartmouth.....	Dickey to Frederick.....	" ..	10
Granite.....	At west end of bridge .....	Steel ...	24
Granite.....	At west end of bridge .....	Akron..	15
Hevey east back.....	From Amory southerly .....	" ..	12
Main west back.....	From Wayne southerly.....	" ..	12
Mast.....	From west of Bowman easterly.....	" ..	10
Mast.....	From west of Riddle westerly.....	" ..	24
McDuffie.....	Boynton to Huntress.....	" ..	10
Parker avenue.....	From Parker southerly.....	" ..	8
Prince .....	Boynton to Huntress.....	" ..	10
Quincy .....	From Douglas southerly.....	" ..	10
Second.....	From Schiller southerly.....	" ..	12
Tilton.....	From Milford northerly.....	" ..	10
Total.....	.....	.....	.....

1896.—WEST SIDE.

Length in feet, new.	Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.		When com- pleted.	
416	.....	1	...	11	4	\$2,238.26	\$5.381	May	29	Oct.	2
184	.....	.....	.....	1	.....	141.47	0.769	"	29	"	2
219	.....	1	...	7	1	188.17	0.905	July	29	Aug.	1
577	.....	2	...	20	3	527.53	0.914	April	21	April	27
250	.....	1	1	3	1	178.64	0.715	Oct.	3	Oct.	6
344	.....	3	1	.....	3	247.80	0.721	May	10	May	21
56	.....	.....	.....	2	.....	36.52	0.652	June	16	June	17
354	.....	.....	1	14	2	322.97	0.913	"	17	"	24
.....	39	.....	.....	}		562.85	3.127	Oct.	6	Oct.	20
.....	141	1	1								
404	... ..	1	...	16	.....	291.20	0.721	May	5	May	9
350	.....	2	...	2	1	306.99	0.877	Oct.	7	Oct.	19
202	.....	1	...	4	1	203.91	1.01	June	9	June	15
610	.....	2	...	15	6	3,297.42	5.602	May	29	Oct.	2
512	.....	1	...	18	3	313.99	0.613	April	30	May	2
150	.....	1	1	5	.....	60.58	0.404	Nov.	11	Nov.	13
588	.....	2	...	17	3	299.00	0.509	April	28	April	30
84	4	....	1	4	.....	56.88	0.646	August	25	Aug.	27
290	.....	1	...	12	.....	762.08	2.973	May	12	May	28
277	.....	.....	1	11	1	245.02	0.881	April	13	April	16
5,867	184	20	7	152	33	\$10,281.28	.....	.....	.....	.....	.....

Length of sewers, East side, division No. 2.	15,377 feet
Length of sewers, East side, division No. 7..	5,102 "
Length of sewers, West side, division No. 10	6,051 "

Total.....	26,530 feet
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Cost of sewers, East side, division No. 2....	\$48,032.42
Cost of sewers, East side, division No. 7.....	8,095.17
Cost of sewers, West side, division No. 10....	10,281.28

Total.....	\$66,408.87
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Average cost per foot, East side, division No. 2	\$3.123
Average cost per foot, East side, division No. 7	1.586
Average cost per foot, West side, division No. 10.....	1.700

Average total cost per foot, \$2.503.

#### SUMMARY.

Total appropriation for new sewers.....	\$77,326.89
Expended, Silver street sewer....	\$16,124.13
Christian brook sewer.	5,187.08
River road and Elm street sewer.....	9,302.43
new sewers, East side..	25,513.95
new sewers, West side.	10,281.28
113 new cesspools....	2,694.45
On hand, River road sewer.....	5,697.57
supplies at city yard....	2,526.00

Total.....	\$77,326.89
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The following table shows how the cost for new sewers, including Silver street, Christian brook, and River road, has been divided:



## COST OF NEW SEWERS, 1896.

' MONTH.	Labor.	Castings, repairs, black- smithing.	Pipe.	Inciden- tals.*	Cement.	Freight charges.	Lumber.	Brick.	†Hardware	Total cost.
January.....	\$800.64	\$4.81	\$113.53	\$68.48	.....	\$16.80	.....	.....	\$0.23	\$1,004.49
February.....	175.22	6.56	.....	74.20	.....	15.54	\$1.35	.....	7.70	280.57
March.....	46.58	14.99	12.69	36.62	\$2.75	.....	2.40	.....	51.71	167.74
April.....	1,577.31	51.99	.....	1,572.33	130.00	.....	28.00	.....	249.37	3,609.00
May.....	6,357.59	303.01	1,431.71	608.15	525.60	141.84	590.91	\$1,009.40	299.56	11,297.77
June.....	9,515.43	241.49	2,640.25	245.73	503.00	244.58	435.37	1,543.17	232.96	15,601.98
July.....	7,545.90	111.12	832.16	418.52	288.75	178.50	333.84	785.60	319.69	10,794.08
August.....	7,093.39	139.02	582.54	57.88	420.03	167.40	253.84	1,183.65	219.62	10,123.43
September....	6,004.32	182.48	638.57	441.14	650.00	112.97	.....	576.80	9.10	8,621.12
October.....	2,787.50	152.74	1,143.77	240.08	75.92	30.44	.....	180.25	149.19	4,759.89
November.....	3,335.98	115.19	666.79	93.85	136.24	28.00	.....	178.19	277.14	4,923.10
December.....	134.42	18.93	.....	164.82	.....	.....	.....	.....	157.98	476.15
Total.....	\$45,431.48	\$1,342.33	\$8,042.01	\$4,021.80	\$2,732.35	\$936.07	\$1,082.97	\$5,463.06	\$1,974.25	\$71,629.32

\* Includes hoisting engine, steam derrick, coal, steam drills, hose, etc.

† Includes foreito powder for blasting.

## SCAVENGER SERVICE.

The scavenger service has become one of the most important features of this department.

There are nine teams in daily use collecting the waste matter about the city. These teams will average six or more loads each, per day, or exceeding 17,000 for the year.

The city farm, which has the contract for removing the perishable waste, disposes of 3,000 loads, making in all 20,000 loads of waste matter collected. The question arises for future consideration, What disposition can be made of this large accumulation of waste matter?

There are some over 3,000 cesspools that require cleaning out three or four times each year, making 4,000 loads. The sweeping department collects 3,000 loads, making a total of 27,000 loads which is carted to the dumps.

## SUMMARY.

Labor.....	\$11,432.55
City farm.....	2,291.67
Incidentals.....	118.87
Repairs on teams and sleds.....	257.06
Repairs on harnesses.....	118.68
Hay, grain, feed.....	722.73
Horse shoes.....	49.54
Total.....	<hr/> \$14,991.10

## NEW BRIDGE, GRANITE STREET.

On March 3, 1896, the city experienced the most disastrous flood known in its history, carrying away the old wooden bridge at Granite street, which had stood the test of wind and flood for fifty years.

McGregor and Amoskeag bridges were more or less damaged, necessitating expensive repairs; the abutments of bridges on the Goffstown road and at Harvey's Mills were carried out, requiring rebuilding; while costly repairs had to be made upon the streets and highways, caused by extensive washouts.

As early as practicable a contract was made with The Head & Dowst Co., to build a foot-bridge at Granite street, which was completed in about three weeks, the water commissioners bearing a portion of the expense. This step was much appreciated by the people on the West side.

On April 27 the city councils passed a resolution authorizing the street and park commissioners to build a steel bridge, to replace the old wooden structure, and appropriated \$130,000 for the same.

Previous to this, proposals had been received from fifteen reputable bridge contractors throughout the country, with plans and specifications, only three of which were selected to choose from, the others being deemed impracticable.

Finally the plan of the Groton Bridge Co., Works & Briggs agents, was selected, and a contract made for a steel high truss bridge, with granite road bed.

Proposals were also received from plans prepared by the city engineer, for building the piers and abutments, but the bids received were considered too expensive.

The character of the river bed and the old piers was such that the commissioners deemed it advisable to have the work done by the city instead of by contract.

L. F. Kittredge & Son were employed, and they completed the work in a most satisfactory manner, at a saving to the city of about \$4,000. Work was commenced May 18, and the bridge opened to public travel November 28.

The commissioners are much indebted to Capt. Charles H. Manning, consulting engineer, for his sound advice and good judgment given, while the bridge was in process of building.

SUMMARY OF NEW BRIDGE, GRANITE STREET.

548 loads of sand.....	\$411.00
2,844 barrels of Hoffman cement.....	2,957.76
33 barrels of Portland cement.....	83.25
Hardware.....	166.11
Coal.....	209.18
Lumber.....	910.50
Stone.....	10,293.97
Use of derricks and tools.....	2,959.50
Incidentals.....	346.68
Pay-roll.....	27,667.78
	<hr/>
	\$46,005.73
Superstructure.....	92,750.00
	<hr/>
	\$138,755.73
Less Manchester Street Railway	\$1,228.00
Less cost of foot-bridge.....	1,000.00
	<hr/>
	2,228.00
	<hr/>
Actual cost.....	\$136,527.73

## BRIDGES.

The following table gives the dimensions, material, and number of spans of the various bridges within the city limits:

LOCATION.	Length in feet.	Width of roadway	No. of walks.	Width of walks.	Material.	Arch es or. spans-
Amoskeag .....	765.5	20	1	5.5	Wood.	3
Bridge street, at canal .....	57	22.5	2	7	Iron.	1
Bridge st., McGregor and approaches	1,085	24	2	6	"	3
Cohas avenue, at Great Cohas.....	36	30.5	.....	.....	Stone.	2
Derry road, at Great Cohas.....	38	20	.....	.....	Wood.	1
Derry road, near Cohas avenue.....	20	17	.....	.....	"	1
Derry road, near town line.....	21	20.5	.....	.....	"	1
Dunbarton road, Black brook .....	25	17.5	.....	.....	"	1
Elm street, at railroad .....	89	29.5	1	4.5	"	1
Front street, at Black brook.....	16.5	33	.....	.....	"	1
Granite street, at canal.....	56.3	37.3	2	6	Iron.	1
Granite street, at river.....	472	40	2	8	Steel.	4
Harvey road, at Great Cohas.....	32	21	.....	.....	Wood.	1
Island Pond road, outlet to lake .....	41	16.7	.....	.....	"	1
Main street, at 'Squog river.....	180	34	2	8	Stone.	2
Mammoth road, at Great Cohas.....	38	18	.....	.....	Wood.	1
Mammoth road, near town line.....	14	20	.....	.....	"	1
Mill road, at Harvey's mill.....	59	20.5	.....	.....	"	3
Parker street, at railroad.....	53	24	2	6	Iron.	1
River road, at Little Cohas.....	16	20	.....	.....	Wood.	1
River road, below James Cheney's...	6	16	.....	.....	"	1
River road, at Goffe's Falls.....	30	30	.....	.....	"	1
Second street, at 'Squog river .....	62	32.5	2	8.75	Steel.	1
Second street, at 'Squog river .....	127	32.5	2	8.75	"	1
South road .....	12	22	.....	.....	Wood.	1
Webster road, at water-works dam...	100	17.5	.....	.....	"	5
Weston road, east of D. Connor's....	6	16	.....	.....	"	1

Stone bridges, 2; steel, 3; iron, 4; wood, 18; total, 27.

## Report of Division No. 10.

## GENERAL REPAIRS.

Repaired Black brook bridge, labor.....	\$12.00
Repaired Parker street bridge, labor.....	35.00
Repaired bridge, Goffstown road, labor.....	39.00
	<hr/>
	\$86.00
Graveled Amory back street, labor.....	\$10.00
Black brook road, labor.....	12.25
Beauport street.....	47.75
Cleveland street.....	25.00
Douglas street.....	3.00
Front street.....	23.50
Mast street.....	23.00
	<hr/>
	\$144.50
Used 234 loads of gravel.	
Repaired Eddy road with stone chips, labor, \$19.75.	
Repaired Parker street, labor, \$15.	
Repaired Railroad street, labor, \$5.	
Culverts repaired, Railroad street, labor.....	\$6.00
Rockland avenue, labor...	6.00
Amoskeag, labor.....	9.00
Mast road.....	3.25
	<hr/>
	\$24.25
Cut bushes, labor, \$25.	
Whitewashing tree boxes, material and labor, \$21.26.	
Cleaned out gutters, scraped crossings, and general repairs, labor, \$849.64.	

## FENCING.

Back road, Amoskeag.....	36 feet
Back road, Amoskeag.....	350 "

Bedford road.....	200 feet
Goffstown road.....	200 "
Hooksett road.....	1,000 "
Mast road.....	310 "
Milford street.....	224 "
New Mast street.....	150 "

Total..... 2,470 feet

Cost of materials and labor, \$145.50.

## NEW STREETS GRADED.

LOCATION.	Length in feet.	Cut or fill.	No. feet graveled	Labor.
Bremer .....	350	Both .....		\$24.00
Back road, Amoskeag.....	510	" ..	225	97.00
Carroll.....	800	" ..	800	176.00
Dickey .....	300	" ..	300	247.25
Dubuque, Wayne to Sullivan .....	520	Cut... ..	520	289.50
Dartmouth .....	350	Fill.....		25.00
Greenwood.....	800	" ..		29.00
Hevey, Kelley to Amory.....	660	Cut... ..	400	797.06
Hevey, Amory to Wayne.....	350	" ..		184.25
Hevey, north of Conant.....	310	Both .....		15.00
Joliette, Kelley to Amory.....	550	Cut... ..	550	294.12
Kelley street .....	3,113	Both .....	2,228	2,196.92
McDuffie.....	150	Fill.....		40.00
Montgomery, Kelley to Amory.....	560	Both .....	560	341.37
Putnam, Beauport to Cartier.....	175	Cut... ..	175	25.00
Rimmon.....	650	Both .....		40.70
Rimmon, north Conant.....	100	Fill.....		22.00
Wheelock.....	40	" ..		25.00
Totals .....	10,288	.....	5,758	\$4,869.17

Wall built on Mast road, 279 perch stone, labor \$141.50

Wall built on New Mast road, 136 perch stone,  
labor..... 118.50

Total..... \$260.00

NOTE.—In some cases above streets have only been turnpiked with road-machine.

For incidentals see summary of new streets graded in report of Division No. 2.

## MACADAMIZING.

\*North Main street, Putnam to Adams, 3,412 square yards.

Used 961 loads of crushed stone.

Used 96 loads of chips.

Labor, \$1,272.25.

## STREETS TOP-DRESSED.

LOCATION.	Length in feet.	Width in feet.	Labor.
Amory-street hill.....	300	23	\$68.25
Bryant.....	300	27	37.64
Bedford road.....	350	15	66.50
Beaumont, north Conant.....	230	28	30.30
Eddy road.....	1,150	18	20.00
Front street.....			27.00
Goffstown road.....	230	28	55.50
Mast road.....	400	16	30.00
Mast road.....	200	22	56.25
Mast road.....	200	10	23.25
Total.....	3,360		\$414.69

## COBBLE GUTTER PAVING.

LOCATION.	Square yards.	No. loads.	Labor.
Amory.....	156	16	\$86.24
A.....	85	9	27.00
Bryant.....	370	47	123.86
Bath.....	76	9	21.00
Carroll.....	445	54	119.25
Dubuque.....	58	8	19.87
Dubuque, north of Amory.....	20	3	6.50
Dubuque, south of Wayne.....	97	13	25.00
Dubuque, north of Conant.....	162	22	51.50
Kelley.....	92	10	17.00
Mast road.....	573	18	218.11
North Main and McGregor.....	842	100	380.65
Putnam.....	124	13	58.34
Riddle.....	102	11	55.26
Rimmon.....	243	30	77.32
Rimmon.....	111	13	47.75
Total.....	3,556	376	\$1,334.65

\* Included in table for macadamizing in Division 2 report.



## PAVING RELAID.

Beauport, north of Adams.....	20 feet
Eddy road.....	100 "
Forrest street.....	60 "
Main street.....	160 "
West end McGregor bridge.....	10 "

Total.....	350 feet
Labor, \$140.50.	

## EDGE STONES SET.

	Feet.
Amory and Columbus.....	16
Amory and Essex.....	16
Amory Manufacturing Co.'s lot.....	356
Amory and Laval.....	16
Amory and Dubuque.....	16
A and Bryant.....	23
Amory and Cartier.....	167
Amory and Coolidge avenue.....	19
Amory and Beauport.....	13
Beauport and Conant.....	22
Beauport and Milton.....	35
Cartier and Milton.....	24
Cartier and Putnam.....	38
Conant and Dubuque.....	24
Dickey and Dartmouth.....	28
Douglas.....	76
Granite bridge, west end.....	144
Granite and Green.....	14
Harvard and Second.....	14
Hevey and Amory.....	32
Wallace's mills.....	8

Total.....	1,101
Labor, \$132.91.	

## GRADE FOR CONCRETE.

LOCATION.	Length in feet.	Width in feet.	Cut or fill.	Labor.
Amory.....	50	8	Fill...	\$1 50
A street.....	160	8	" ...	5.00
Amory and Cartier.....	150	8	Both..	28.75
Amory.....	150	8	Fill..	10.00
Amory.....	275	8	Cut...	29.00
Beauport.....	200	8	" ...	8.00
Beauport.....	440	8	Fill...	11.00
Boynton.....	250	8	" ...	8.36
Conant.....	112	8	Cut...	6.00
Cartier.....	350	8	Fill...	11.50
* Dickey.....	600	6	Cut...	.....
Dubuque.....	375	8	" ...	9.00
Milford.....	1,000	8	Both..	51.00
Milton.....	420	8	Fill...	15.50
North Main.....	860	8	" ...	20.00
Putnam.....	100	8	" ...	7.00
Putnam.....	100	7	Both..	16.00
Rimmon.....	450	8	Fill...	10.00
Rimmon.....	50	8	Both..	10.00
Second.....	1,550	6	Cut...	29.50
Wayne.....	75	8	Both..	22.00
Total.....	7,717	.....	.....	\$309.11

\* Labor charged to new highways.

## NEW CESSPOOLS.

LOCATION.	No.	Cost of material.	Labor.
Amory and Rimmon.....	1	\$17.24	\$13.25
Amory.....	3	44.21	41.22
A.....	1	7.96	12.00
Amherst road.....	1	4.90	7.00
Boynton and Prince.....	2	21.14	12.00
Boynton and McDuffie.....	1	11.08	7.00
Bath.....	1	9.45	12.50
Boynton.....	2	24.04	37.70
Canton and Wayne.....	1	19.80	13.50
Canal.....	2	29.74	30.00
City yard, division No. 10.....	1	7.66	8.00
Cartier and Sullivan.....	1	13.04	12.00
Dickey and Dartmouth.....	2	25.90	26.50
Dubuque and Wayne.....	1	12.60	13.50
Dubuque and Conant.....	1	16.50	15.50
Granite and Turner.....	2	28.92	15.00
Hancock and Second.....	1	17.40	16.25
Kelley and Dubuque.....	2	25.16	25.62
Kelley and Rimmon.....	1	16.94	22.50
Kelley.....	4	53.32	66.67
Main at Wallace's mills.....	1	17.71	18.00
Mast road.....	4	86.02	59.62
Mast road.....	1	12.27	9.75
McGregor.....	2	33.91	22.00
Main, west back.....	1	10.20	5.00
North Main.....	1	16.36	11.50
Rimmon and Conant.....	1	13.80	10.90
Rimmon and Conant.....	1	15.07	16.50
Turner.....	1	9.98	10.00
Williams.....	2	17.72	13.50
Total.....	46	\$640.04	\$584.48

## REPAIRED SEWERS AND CESSPOOLS.

LOCATION.	Cost of material.	Cost of labor.
Bath and Second.....	\$0.82	\$1.50
Beauport.....		2.50
C street (sewer).....	1.29	40.00
Conant and Wayne.....		1.75
Kelley (sewer).....	8.90	248.00
McGregor.....	2.32	3.75
Mast road .....		1.50
Milford.....	1.43	1.50
North Main.....	1.12	6.00
Cleaning out cesspools.....		361.97
Total.....	\$15.88	\$668.47

The following table gives only the length in feet and total cost of sewers built in this division the past season. For further details see (Sewer Table) division No. 2 report.

## NEW SEWERS.

LOCATION.	Length in feet.	Total cost.
Amherst road, Mast to south of Carroll .....	416	\$2,238.26
Amherst road, south of Carroll southerly.....	184	141.47
B, C northerly.....	219	188.17
Boynton, C to McDuffie.....	577	527.53
Carroll, Amherst road, southerly.....	250	178.64
Cartier east back, Putnam southerly.....	344	247.80
Conant, west of Cartier westerly.....	56	36.52
Dartmouth, Dickey to Frederick.....	354	322.97
Granite bridge, west end.....	180	562.85
Herey east back, Amory southerly.....	404	291.20
Main, west back, Wayne southerly.....	350	306.99
Mast, west of Bowman easterly.....	202	203.91
Mast, west of Riddle westerly.....	610	3,297.42
McDuffie, Boynton to Huntress.....	512	313.99
Parker avenue, Parker southerly .....	150	60.58
Prince, Boynton to Huntress.....	588	299.00
Quincy, Douglas southerly .....	88	56.88
Second, Schiller southerly.....	290	762.08
Tilton, Milford northerly.....	277	245.02
Total.....	6,051	\$10,281.28

## REPORTS FROM HIGHWAY DIVISIONS.

## Division No. 4.

BYRON E. MOORE, AGENT.

Number of feet of new roads built this year, 550.

Number of feet of roads graveled, 1,000.

Number of feet of roads widened, 500.

The total number of cubic yards filled has been 2,000.

Two new stone culverts have been built, and one pipe culvert repaired.

Bushes have been cut both sides of the roads throughout the division, and all roads broken out after snow-storms.

Total amount expended for labor, \$566.87.

## Division No. 5.

MARK E. HARVEY, AGENT.

Number of feet in length of roads graveled, 4,950.

Number of feet in length of roads turnpiked, 895.

Graded by cut, Porter street.....	445 cu. yds.
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Graded by cut, Londonderry old road.....	646 "
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Graded by cut, Weston road.....	74 "
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Total.....	1,165 cu. yds.
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Londonderry old road has been widened  $7\frac{1}{2}$  feet for a distance of 1,050 feet, making a fill of from one to five feet deep. The high water last spring washed out the east abutment of the bridge across Cohas brook near the old Harvey mill site. This abutment, together with the en-

tire bridge, has been rebuilt, using new timbers where necessary. This bridge has been narrowed about three feet, and straightened, making it more in line with the highway than before. One stone culvert has been taken up, cleaned, and relaid. Loose stones removed from the roads twice a month from April until November. All roads broken out after each snowstorm.

Total amount expended for labor, \$707.01.

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### Division No. 6.

DANIEL H. DICKEY, AGENT.

Turnpiked 2,280 feet with road-machine, graveled Dickey road, covered two bridges with new plank, rebuilt six culverts, three stone and three of pipe.

Bushes cut on both sides of the road for about three and one half miles. Roads broken out after all snowstorms, and general repairs made throughout division.

Total amount expended for labor, \$365.52.

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### Division No. 7.

CHARLES FRANCIS, AGENT.

#### NEW HIGHWAYS.

Cypress street, turnpiked Young road to

Clay street.....	1,200 feet
Harvard street, by cut of 2 feet, Wilson to	
Hall.....	315 "
Revere avenue, by cut and fill.....	250 "
Grove street, graded and graveled.....	600 "
Wilson street, from Valley to Silver, graded..	1,400 "

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Total..... 3,765 feet

## GRADE FOR CONCRETE.

Grove street.....	100 feet
Wilson street.....	450 "
Vinton street.....	200 "
Harvard street.....	300 "
Prout avenue.....	200 "
Jewett street.....	300 "
Falls road.....	120 "
Total.....	<u>1,670 feet</u>

## STONE WORK.

Built culvert Highland and Glenwood avenue, 1 foot x 1½ feet.

Built culvert Belmont street and Young road, 2 feet x 2 feet.

Gutter paved Falls road, 150 feet.

Edgestone set, Jewett and Hayward.....	16 feet
Hayward and Prout avenue..	32 "
Summer and Massabesic.....	16 "
Hosley and Summer.....	32 "
Hayward and Taylor.....	16 "
Total.....	<u>112 feet</u>

Used road-machine on following roads: Mammoth road, Huse road, Hall road, Candia road, Young road, Paige street, Belmont street, Longwood avenue, Highland avenue, Orchard avenue.

## NEW SEWERS BUILT.

LOCATION.	Length in feet.	Total cost.
Auburn, Canton easterly .....	510	\$1,572.25
Auburn south back, Wilson easterly.....	515	513.27
Beacon, Spruce northerly.....	198	70.44
Canton, south of Spruce to Auburn.....	352	388.14
Cedar, Wilson to Wilson east back.....	212	198.50
Cedar south back, Pine to west of Beech.....	894	277.60
Grove, west of Taylor westerly.....	101	137.02
Jewett, north of Young to Clay.....	877	3,635.13
Valley, Jewett easterly.....	300	229.00
Wilson, Valley to Prescott.....	807	779.02
Wilson, Prescott to Harvard.....	336	294.80
Total.....	5,102	\$8,095.17

NOTE.—Most of the work in this division this year has been on new sewers, the above list giving only the length in feet and total cost. For further details see (Sewer Table) division No. 2 report.

General repairs have been made throughout the division, all roads broken out after snowstorms, bushes cut, stones removed from the roads, etc.

Total amount expended for labor, including new sewers, \$8,892.12.

## Division No. 8.

GEORGE H. PENNIMAN, AGENT.

Considerable work has been done on the Bridge-street extension this year. The street has been widened and graded for a distance of 3,600 feet. Number of cubic yards cut, 2,987; filled, 3,007. Number of cubic yards rock blasted, 74; 8.3 cubic yards ledge blasted near Candia road, and 160 cubic yards stone removed.



178 feet x 1 foot x 1 foot culvert laid.

75 feet x 1 foot x  $1\frac{1}{2}$  feet culvert laid.

26 feet x 1 foot x 2 feet culvert laid.

15 feet x  $1\frac{1}{2}$  feet x 2 feet culvert laid.

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294 feet total length.

Stonework for above culverts, including covering, 63.7 cubic yards.

Rubble for above culverts, 20 cubic yards.

Graded three sidewalks on Hanover road, total length in feet, 798; and paved gutters, 204 square yards. Built bank wall; 142 feet.

Number of cubic yards filled, 600.

3,564 feet of roads turnpiked.

Stone culverts (new) built:

12 feet x  $1\frac{1}{2}$  feet x  $1\frac{1}{2}$  feet.

24 feet x 2 feet x  $1\frac{1}{2}$  feet.

165 feet x 1 foot x 1 foot.

15 feet x 1 foot x  $1\frac{1}{2}$  feet.

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216 feet total new.

Stone culverts relaid:

23 feet x 2 feet x  $1\frac{1}{2}$  feet.

25 feet x 2 feet x 1 foot.

27 feet x 1 foot x  $1\frac{1}{2}$  feet.

133 feet stone and pipe.

112 feet plank.

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320 feet total relaid.

Stonework for above culverts, including covering, 123 cubic yards.

Rubble for above culverts, 27 cubic yards.

Bank wall built, 111 feet x  $3\frac{1}{2}$  feet x 2 feet, 31 perch stone.

Bank wall built, 142 feet x 4 feet x 2 feet, 45 perch stone.

New railing built: 60 feet of wood.

205 feet 4 x 6 rail, 18 iron posts set in stone on Page's hill.

430 feet 4 x 4 rail, 40 iron posts set in stone on Hanover road.

Built two driveways, using 27 feet 10-inch iron pipe.

Bushes have been cut both sides of the road for a distance of twelve miles. General repairs made throughout the division, loose stones removed from roads once a week. All roads broken out after snowstorms.

Total amount expended for labor, \$2,502.36.

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#### Division No. 9.

LESTER C. PAIGE, AGENT.

Number of feet of roads graveled, 3,780.

Number of feet of roads plowed and turnpiked, 708.

Number of feet of railing built, 128.

The bridge over Cohas brook on Mammoth road was newly planked, using 2,400 feet; also the bridge on Derry road was patched with 800 feet of plank.

#### ROAD-MACHINE USED.

On Cohas avenue, from Derry road to division line.

On Webster road, from Derry road to division line.

On Paige road, from Mammoth road to Londonderry line.

On Mammoth road, from division line to Londonderry line.

Derry road about one and one half miles.

Bushes have been cut on all roads throughout the divi-

sion. Small stones were removed from the roads several times during the season. All roads broken out after snowstorms, and kept in a passable condition during the winter months.

Total amount expended for labor, \$465.78.

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### Division No. 12.

EUGENE C. LIBBEY, AGENT.

Roads broken out and opened for travel during the winter months. Cleaned out the culverts and ditches throughout the division. Graveled the entire length of the hill on Bald Hill road; also graveled 810 feet on Mammoth road. Widened and graded 3,400 feet Bridge-street extension, lengthened on and built over several culverts. Made general repairs throughout the division.

Total amount expended for labor, \$889.72.

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### COMMONS.

*John Fullerton, Superintendent.*

The principal labor done on the commons in the winter months is preparing and flooding the small ponds for skating purposes. This costs but a small sum, and is well worth the expenditure for the pleasure it affords the boys and girls in outdoor healthful exercise. There are eight ponds so cared for,—three on Merrimack, two on Park, one on Concord, one on Hanover, and two on Tremont commons.

Early in the spring a general cleaning up is made of all accumulated waste, seats painted and put in position, and all dead trees removed and new set out. The grass is cut several times during the season, and flowers and

shrubby cared for. Before freezing, all flowering plants are removed and distributed among the various schools throughout the city.

The following is a summary of the expenditures on commons:

Labor.....	\$2,450.06
Water-Works.....	700.00
Trees, shrubs, and flowers.....	282.75
Concreting.....	222.97
Incidentals.....	139.28
Tools and supplies.....	74.13
Grass seed and dressing.....	160.87
Seats.....	81.36
Painting.....	64.53
Lights.....	30.00
Hose.....	145.20
Total.....	<u>\$4,351.15</u>

#### DERRYFIELD PARK.

The plan adopted by the city councils in regard to beautifying both Derryfield and Stark parks has been followed as far as possible with the limited appropriations available for this work.

There has been constructed on the north of old Bridge street a circular macadamized driveway, 1,528 feet by 26 feet, 4,415 square yards, using 1,500 loads of stone, with a cobble gutter on both sides 2½ feet wide, 1,154 cubic yards; also the west side of the avenue leading to Oak Hill has been paved 2½ feet wide for 1,500 feet. A stone culvert 2 x 2 has been built across Bridge street to take care of the water coming down Oak Hill. Several acres of bushes have been cut and burned. Five new cesspools have been built, and 84 feet of 8-inch pipe laid.

All manure made at the city stables has been carried to

the park and thoroughly mixed with loam, making an excellent fertilizer of over two hundred loads, which will be utilized for top dressing the coming season.

The foundation for the Weston Observatory was put in, and the same will be erected the coming year, which will add much to the attraction of the park.

The area of Derryfield park, with the addition of Oak Hill, is now 93.65 acres.

Following is a summary of expenditures on this park for the season:

Labor.....	\$3,832.95
Stone.....	38.50
Incidentals.....	11.57
Water-Works.....	24.00
Coke.....	17.00
Hardware.....	55.08
Forcite powder.....	23.27
Total.....	<u>\$4,002.37</u>

#### STARK PARK.

Early in the season all ditches and gutters were cleaned out and roadways repaired, bushes cut, and all waste matter collected and burned. Eleven acres have been top-dressed with ashes and other fertilizers; set out twenty-five trees, and beautified the grounds with over eight hundred flowering shrubs carefully selected for this purpose.

There was also built a tool-house. The lot about the Stark cemetery was graded and an attractive curbing placed in position, furnished by Augustus Stark and Miss Elizabeth Stark.

All trees and shrubbery were well watered during the dry season. Six hundred feet of new fencing was built on the north side of the park. Grass was cut several

times during the season, and trees trimmed in the natural grove located in the northwestern section of the park.

Following is a list of expenditures on this park for the season:

Labor.....	\$535.75
Trees and shrubs.....	335.00
Dressing.....	112.50
Hardware.....	14.38
<hr/>	
Total.....	\$997.63

Following is the area of the different parks and squares throughout the city, showing the extensive territory to be taken care of with the small amount of money available for this purpose:

Area of Derryfield park.....	93.65 acres
Stark park.....	30.00 "
West side park.....	9.76 "
Rimmon park (proposed).....	42.91 "
Concord square.....	4.48 "
Hanover square.....	3.00 "
Merrimack square.....	5.89 "
Park square.....	3.49 "
Simpson square.....	.56 "
Tremont square.....	2.25 "
<hr/>	
Total area.....	195.99 acres



In closing we desire to extend our thanks to His Honor the Mayor and the members of the Committee on Streets, Sewers, and Commons for the uniform courtesy and readiness to aid and assist us in the discharge of our duties.

We also wish to express our appreciation of the faithful and efficient services of those connected with us in carrying out the work in the various departments.

HORACE P. SIMPSON,  
GEORGE H. STEARNS,  
BYRON WORTHEN,  
*Street and Park Commissioners.*

JANUARY 1, 1897.



REPORT  
OF THE  
CITY ENGINEER.

CITY ENGINEER'S DEPARTMENT  
1896.

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CITY ENGINEER.

WINFRED H. BENNETT.

FIRST ASSISTANT, FIELD AND OFFICE.

HARRIE M. YOUNG.

SECOND ASSISTANT, DRAUGHTING.

GEORGE W. WALES.

THIRD ASSISTANT, FIELD AND OFFICE.

HARRY J. BRIGGS.

ASSISTANTS.

GEORGE M. CURRIER, Jan. 6 to Apr. 25.

HERBERT L. WATSON, May 25 to Sept. 3.

ALFRED T. DODGE, began Apr. 14.

LOUIS B. WEBSTER, began Apr. 28.

TYPEWRITERS.

MISS LENA A. DODGE, Jan. 2 to Jan. 17.

MISS ELLA M. BARKER, Oct. 1 to Jan. 1.

## REPORT OF THE CITY ENGINEER.

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*To His Honor the Mayor and Gentlemen of the City Councils:*

SIRS,—I have the honor of presenting my eleventh annual report, being the eighteenth annual report of the work of the city engineer's department, for the year ending December 31, 1896.

Expenses of the department for the year 1896 per monthly draft:

January.....	\$284.50
February.....	275.11
March.....	635.04
April.....	329.63
May.....	575.04
June.....	823.77
July.....	480.27
August.....	351.75
September.....	715.70
October.....	357.85
November.....	394.65
December.....	671.94
Total.....	\$5,895.25
Appropriation.....	4,500.00
Amount overdrawn.....	\$1,395.25

## Itemized account of expenses for the year:

For salary of city engineer.....	\$1,200.00
salary of assistants.....	3,717.85
supplies for office.....	206.67
additions to office furniture.....	4.25
stakes and lumber.....	84.38
horse shoeing and repairs of wagon and harness.....	32.25
new wagon.....	75.00
street-car fares.....	55.65
express and postage.....	4.02
repairing.....	14.15
books and folios.....	48.75
printing.....	11.00
telephone.....	36.80
horse hire.....	87.00
typewriter supplies.....	65.00
typewriter clerk.....	105.06
street numbers.....	45.00
painting rods.....	3.00
photographs.....	11.50
expenses.....	7.00
reports.....	68.57
deeds and lay-outs.....	12.35
Total.....	<u>\$5,895.25</u>

The items for salaries may be divided as follows:

For giving lines and grades for the extension and construction of streets and side- walks.....	\$704.05
plans and profiles relating to the con- struction of streets and sidewalks.....	197.51
surveys and levels for the construction of streets and sewers.....	456.90

For giving lines and grades for and superin-	
tending the construction of sewers....	\$286.86
plans and profiles relating to the con-	
struction of sewers.....	195.75
surveys, measurements, and plans for the	
assignment of street numbers.....	96.65
making plans for improvements other	
than those mentioned in this account..	324.42
surveys, levels, and plans, also lines and	
grades given for improvements in Pine	
Grove cemetery.....	77.44
surveys, levels, and plans, also lines and	
grades given for improvements in Val-	
ley cemetery.....	33.42
making new map of Valley cemetery....	82.73
making plans and new map of Pine Grove	
cemetery.....	123.33
making additions to map of Pine Grove	
cemetery for city treasurer.....	14.48
plan, survey, and location of lots in Mer-	
rill yard.....	28.05
surveys, levels, and plans, also lines and	
grades given for repairing and extend-	
ing the street railway.....	82.73
collecting data, classifying accounts, and	
other work in relation to office report..	110.04
lines, grades, and superintendence given	
for the construction of avenues in Stark	
park.....	20.63
lines, grades, and superintendence given	
for the construction of avenues in Der-	
ryfield park.....	29.32
indexing plans and notes.....	28.76
checking notes, figures, etc.....	22.56
new sewer map of city.....	21.31

For new sewer book.....	\$117.95
measuring and figuring concrete laid for the city.....	29.15
attendance upon meetings of the street and park commissioners, and data fur- nished them.....	180.00
plans made for location of wires and boxes, police patrol.....	33.27
plans, lines, grades, and other data in re- ference to Granite bridge.....	455.68
sketches, lines, and grades for construc- tion of walks at new high school lot....	55.92
making plans of streets laid out and sew- ers constructed, in city clerk's record book.....	27.00
record of streets laid out, office use.....	22.28
locating and putting up street signs and guideboards.....	11.10
locating and setting stone bounds.....	9.07
office work, preparing notes, data, rec- ords, etc.....	186.05
procuring abutters' names.....	25.04
figuring areas.....	27.94
lettering and finishing plans.....	50.00
information given engineers and others regarding lines, grades, sewers, etc....	300.00
researches of deeds for property lines and ownership.....	30.00
plans for and attendance upon board of aldermen at street hearings.....	60.00
attendance upon meetings of the commit- tee on streets, and plans pertaining thereto.....	55.00
attendance upon meetings of the commit- tee on sewers and drains, clerical work, including orders written.....	65.00

For attendance upon meetings of the committee on lands and buildings, and plans pertaining thereto.....	\$50.60
attendance upon meetings of special committees, and plans pertaining thereto..	40.00
list of streets laid out, for tables.....	6.00
list of sewers, for tables.....	15.00
street petitions.....	21.60
sewer petitions.....	10.00
addition to city maps.....	11.82
sewer sheet tables.....	10.00
sewer licenses and permits.....	60.12
testing cement.....	16.52
Total.....	<u>\$4,917.85</u>

The following bills, charged to other appropriations, have been certified to by this department.

## STREET SIGNS AND GUIDE-BOARDS.

Charles H. Wood, to painting 2 signs for Granite bridge, @ \$1.50.....	\$3.00
to painting 2 guide-boards, @ \$1.....	2.00
to painting 12 street signs, @ 35c.....	4.20
to painting 3 guide-boards, @ \$1.25.....	3.75
to gilding sign for Mayor.....	1.25

## SUNDRIES.

E. R. Coburn Co., 3 sheets parchment.....	\$2.25
4 sheets Bristol board.....	.50
1 dozen flags, Rimmon park	1.00

## CONCRETE.

John T. Underhill & Co., 4,135.05 square yards	\$2,433.26
Charles H. Robie Co., 7,157.84 square yards...	3,656.84

The amount of work done by this department during the year is as follows:

Number of orders for surveys, street lines, and grades.....	741
for sewer grades.....	108
for paving grades.....	91
for street railway grades.	10
for Pine Grove cemetery grades.....	29
for profile levels.....	37
for Granite bridge grades	60

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Total number of orders.....	1,076
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Level for profiles for establishing grades, 16,156 feet, equal to 3.06 miles. These profiles have three lines of levels on each street, making a total distance actually leveled of 48,478 feet.

Levels for sewer profiles.....	9,461
for center profiles.....	12,587
in Pine Grove cemetery.....	2,039
in Stark park.....	176
Other levels.....	18,506

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Total levels taken.....	91,247
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Equal to 17.28 miles.

Surveys of streets and street lines.....	94,200
in Pine Grove cemetery.....	2,000
for street numbers.....	43,575
Other surveys.....	20,382

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Total surveys made.....	159,957
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Equal to 30.29 miles.



Street lines marked on ground.....	20,500
Lines of lots and avenues, Pine Grove cemetery.....	4,500
of avenues, Stark park.....	2,088
of avenues, Derryfield park.....	3,000
for gutters.....	32,406
for curbs.....	4,746
for sewers.....	28,715
for street railway.....	15,950
Other lines.....	12,000

Total length of lines marked on the ground..... 123,905

Equal to 23.47 miles.

Grades set for sidewalks.....	32,001
for gutters.....	32,406
for curbs.....	4,746
for sewers.....	28,715
for street railway tracks.....	15,950
for building streets.....	30,581
in Pine Grove cemetery.....	3,367
in Stark park.....	88
in Derryfield park.....	3,000
Other grades.....	1,779

Total length of grades set..... 152,633

Equal to 29.98 miles.

Lot owners looked up, 31,560 feet.

Equal to 5.98 miles.

#### BATTERS SET.

Beech street, culvert near Brown avenue.

Elm street, retaining wall at schoolhouse.

Granite street, at bridge.

Mast street, bank wall at Mrs. Head's.	
Mast street, bank wall at Hiram Hoitt's.	
Prospect street, bank wall at Burke's.	
Pine Grove cemetery, Josiah Carpenter's tomb.	
Ray street, culvert at Ray brook.	
Wilson street, culvert near Bell street.	
Old lots restaked in Pine Grove cemetery.....	20
New lots laid out in Pine Grove cemetery.....	49
	<hr/>
Total cemetery lots laid out.....	69
Street numbers assigned and put on.....	245
replaced.....	19
assigned but not put on.....	60
changed.....	8
	<hr/>
Total.....	333
Street signs put up, 15; guide-boards, 10; sewer permits granted, 237.	

#### PLANS AND PROFILES MADE FOR SIDEWALK GRADES.

Auburn, Elm to Pine.  
 Chestnut, Clarke to north of Trenton. Two plans.  
 Cypress, Valley to Clay. Two plans.  
 Front, Bridge road to Goffstown road.  
 Huntress, Albert to north of Prince.  
 Prout avenue, Hayward to Young.  
 Salmon, Union to Maple.  
 Somerville, Union to Maple.  
 Somerville, Taylor to Jewett.  
 Trenton, Elm to Union.  
 Total plans and profiles, 12.

#### SEWER PLANS AND PROFILES.

Auburn, Canton to James Hall road.  
 Beech, Gore to Salmon.

Belmont, Spruce to Merrimack.  
Belmont, East High to Gore.  
Cedar, Wilson to east side of school lot.  
Cedar south back, east side of school lot to Belmont.  
Cedar south back, Maple to Lincoln.  
East of Wilson, Cedar to Cedar south back.  
Elm, Valley to Hayward.  
Hayward, Jewett to Mammoth road.  
High south back, Pine to Union.  
Jewett, Young to Cilley road.  
Lake avenue, Hall to Beacon.  
Lowell south back, Chestnut to Pine.  
McDuffie, Boynton to Huntress.  
Mead, Hall to Belmont.  
Nutt road, Elm to Silver.  
Pine, High south back to Lowell south back.  
Prince, Boynton to Huntress.  
Silver, Nutt road to Lincoln.  
Tilton, Milford to Bowman place.  
Walnut east back, Sagamore to Webster.  
Wilson, Hayward to Cilley road.  
Wolf and Wagner land, sewerage.  
Myrtle, and Woodbury lot.  
Total sewer plans and profiles, 25.

## NUMBERING PLANS.

Cedar, Hall to James Hall road. Two plans.  
Dartmouth, east of Wingate to east of Harvell.  
Hale, Wingate to Harvell.  
Hill, Bell to east of Schiller.  
Hillside avenue, Milford southerly.  
Nutfield Lane, Manchester south back to Lowell. Two plans.  
Sagamore, Russell to east of Smyth road.

Springview avenue, Somerville northerly.  
Wheelock, Belknap to east of Harvell.  
Williams, Milford northerly.  
Total numbering plans, 13.

#### GRANITE BRIDGE PLANS.

Details of masonry. Two plans, two tracings, two blue prints.

Details of stonework, at abutments. Two plans.

East abutment and piers. Three plans, four tracings.

Groton Bridge Co.'s plans. Two blue prints.

Location of piers. Two plans.

Manchester Mills land at east end. Tracing.

Pier No. 1. One working plan, two tracings, three blue prints; one working plan of nose stone, one tracing, two blue prints.

Pier No. 2. One working plan, one tracing, two blue prints; one working plan of nose stone, one tracing, two blue prints.

Pier No. 3. One working plan, two tracings, three blue prints; one working plan of nose stone, one tracing, three blue prints.

Proposed bridge, location for E. K. Turner. One plan, one tracing, two blue prints.

Railing at approaches. Plan and tracing.

Section showing sewer outlet. Two plans, one tracing.

Sketch of bridge site for using old piers. One plan, one tracing.

Sketches at bridge. One tracing, five blue prints.

Sketches at bridge for street commissioners. Thirteen blue prints.

Transverse and cross section of spans for wooden bridge. Three plans.

Total bridge plans, 81.

## MISCELLANEOUS PLANS.

Borough road land, bought of Clough and Proctor.  
Bridge and Malvern, land of J. B. McCrillis. Copy.

Glenwood park, plan of a part of. Copy.

Hanover, Page and C. & P. R. R., land of J. W. Rand.

Copy.

Jewett and Cypress, land of L. W. & A. A. Page. Copy.

Mammoth road, land of D. B. Morency. Copy.

Taylor, land of A. B. Page. Copy.

Union, Walnut, and Beech, land of Mrs. H. C. Lowell.

Copy.

Total miscellaneous plans, 8.

## WORKING PLANS.

Baker, Elm to Calef road. Center profile.

Beacon, Hanover to Amherst. Profile.

Beech, Concord to Bridge, street railroad line.

Beech, Lake avenue to Orange. Profile.

Beech, north of Mitchell to River road. Profile.

Bedford road, Milford to west of town line. Location.

Bridge street fountain. Details of cooler.

Calef road, Baker to Pine Grove cemetery. Layout.

Calef road, Baker to Pine Grove cemetery. Center profile.

Cedar south back, Pine to Beech. Sewer profile.

Central, Lincoln to Hall. Profile.

Central south back, Union to Maple. Sewer profile.

Concord, Union to Ash. Profile.

Concord, Hall to Beacon. Profile.

East Manchester, portion of, for sewer book.

Hall, Harrison to Gore. Profile.

High school lot. Location of building, trees, and walks.

High school lot. Details of curbing and posts. Two plans.

High school lot. Sketch for drainage.

Holt avenue, Candia road to Borough road. Two plans.

Island Pond road. Land of William Corey.

Lake avenue, Belmont to Mammoth road. Profile.

Laurel, at No. 62. Sketch for county solicitor.

Liberty east back, Christian brook northerly. Sewer profile.

Manchester. Plan of city land for police patrol stable.

Merrill yard. Plan of lots.

Merrimack, Hanover and Beacon. Lot sewerage. Profile.

Milford and Bedford road to Catholic cemetery. Center profile.

Milton, Beacon, Hanover, Amherst, square bounded by.

Milton, Hanover to Amherst. Profile.

Montgomery, Amory to Kelley. Profile.

New Mast, Mast to Goffstown line. Location.

New Mast, Mast to Goffstown line. Layout.

Old Bridge, Hall to Belmont. Profile.

Parker avenue, Parker southerly. Sewer plan and profile.

Pennacook, Granite, Elm, and railroad. Corporation land.

Pine Grove cemetery. Proposed lots south of Pine lawn. Three plans.

Pine Grove cemetery. Proposed drainage. Three plans.

Pine Grove cemetery, Linden avenue. Profile.

Rimmon park. Proposed layout. Two plans.

Ryderville road and adjoining land. Location.

Sagamore, Union to east of Smyth road. Profile.

South Main, schoolhouse lot and adjoining land.

South Manchester school lot. Bank wall.

Stark park. Design for curbing around burial lot.

Stark park. Profile through burial lot.

Union east back, Gore to Webster. Two sewer profiles.

Valley cemetery. Proposed lots.

Valley cemetery. Lots and avenues. Five plans.

Vault shelves. Details of construction.

West Manchester. Land of N. H. Improvement Co.

Total working plans, 63.

#### TRACINGS.

Amoskeag, Front and Goffstown road, northwesterly.  
Part of a plan of.

Amoskeag, old back road. Land of Mrs. Agnes Linen.

Baker, Elm to Calef road. Street railroad location.

Baker, Elm to Calef road. Land of Waterman Smith.

Beech, Hayward and Harvard. Land of Harrington and Shea.

Beech, Lake avenue to Sagamore. Location of street railroad.

Borough road, land of Clough and Proctor.

Bowditch, Boylston, and Woodlawn avenue. Lots in Woodlawn.

Bridge, Union, Lowell, Chestnut, square bounded by.

Calef road, Baker to Pine Grove cemetery. Street railroad location.

Candia road, Londonderry turnpike. Land of Samuel G. Reed.

Canton, Spruce to Auburn. Sewer profile.

Cemetery brook, Pine to Maple. Location.

Clay, Cypress to Jewett. Land of William H. Thayer.

Dickey avenue, D street and New Mast road. Land of John W. Dickey.

- East Manchester. Land of Moore, Fellows, and Miller.  
Elm, Union, Carpenter, Griffin, Kidder, Farrington.  
For assessors.  
Elm, Hanover and Maple. Location of conduits.  
Foster avenue. Land of Fred A. Platts.  
Goffstown road. Land of Meserve, Carr, and Fellows.  
Groux Island. Land of John H. Groux.  
Grove. Land of William E. Moore.  
Hall road, Mammoth road and Lake avenue. Land of Robert I. Stevens.  
Harvard, Union to Beech. Land-takings.  
Hayward, Belmont and Taylor. Land of A. S. Lamb.  
High school lot. Proposed drainage.  
High school lot. Details of curbing and posts.  
High school lot. Curbing and walks.  
High school lot. Elevation of Beech and Ash street sides.  
High school lot and adjoining land. Proposed improvements.  
Holt avenue, Candia road to Lake Shore road.  
Jewett and Cilley road. Land of Thomas Gorman.  
Kelley, M. & N. W. R. R. to Goffstown line. Proposed extension. Two plans.  
Lake avenue, Hall to Cass. Proposed widening.  
Lakeview and Summit. Land of E. P. Cummings.  
Laurel extension. Plan of lots.  
Lovering. Land of David Lovering.  
Mammoth road. Land of George L. Sargent.  
Maple. Land of Elliott and Burpee.  
Massabesic street. Land of Fred A. Platts.  
Merrill yard. Plan of a part of.  
Mitchell. Land of W. H. Smith.  
Mystic. Land of M. N. Badger.  
Nutt road. Land of Joseph N. Auger.  
Page and Bell. Land of S. T. Page.



Page, Candia road and C. & P. R. R. Land of David Lovering.

Pine. Land of A. J. Lane.

Pine park. Land of Fred A. Palmer.

Pine Grove cemetery. Lots and avenues. Four tracings.

Pine Grove cemetery. Lots Nos. 1167 and 1170. For A. G. Fairbanks.

Pine Grove cemetery. Location of water pipes. Two plans.

Pine Grove cemetery. Lay-out of Manesquo field.

Pine Grove cemetery. Proposed drainage.

Rimmon park. Proposed lay-out. Four plans.

Ryderville road, Goffstown road to Front street.

Second. Land of Charles F. Harvell.

Silver, Harvard, Beech, Maple. Land of Thomas Johnson.

Somerville and Hall. Proposed extension.

South Main school lot and adjoining land. Two plans.

South Manchester school lot. Bank wall.

Summer, Milton, and Dearborn. Land of Austin Goings.

Taylor, Clay, Somerville. Land of Mrs. Cotton.

Taylor and Massabesic. Land of Melvin Badger.

Township of Chester. Plan of a part of.

Union, Walnut, Beech. Land of Mrs. H. C. Lowell. Two plans.

Valley cemetery. Lots and avenues. Five plans.

Wilson Hill sewer. Proctor claim.

Total tracings, 82.

#### BLUE PRINTS.

Canton, Spruce southerly. Sketch showing sewer.

East Manchester. Land of Moore, Fellows, and Miller.

Elm. Land of People's Gas Co.

Groux Island. Land of John H. Groux.  
Grove. Land of William E. Moore.  
Harvard, Union to Beech. Land takings.  
Hayward, Belmont to Taylor. Land of A. S. Lamb.  
Holt avenue, Candia road to Lake Shore road. Location.

Isabella, at 'Squog river. Proposed bridge.  
Jewett and Cilley road. Land of Thomas Gorman.  
Maple. Land of Elliott & Burpee.  
Massabesic street. Land of Fred A. Platts.  
Page, Hanover to Bridge. Land of S. T. Page.  
Rimmon park. Proposed lay-out. Twelve plans.  
Ryderville road, Goffstown road to Front. Location.  
Two plans.

Sagamore, Oak easterly. Land of W. A. Burgess & Co.

Second. Land of Charles F. Harvell. Two plans.  
Sherburne, Candia road northerly. Land of Samuel D. Sherburne.

Silver, Harvard, Beech, Maple. Land of Thomas Johnson.

Stark park. Design for curbing around burial lot.  
Profile.

Valley cemetery. Water pipe plan.

Valley cemetery. Lots and avenues for superintendent. Four plans.

Whittemore land, West Manchester. Proposed sewerage.

Total blue prints, 39.

#### MAPS.

City of Manchester, east side, showing sewers. Blue print.

City of Manchester, west side, showing sewers. Two blue prints.

City of Manchester, for police patrol system. Tracing.

City of Manchester, for police patrol system. Four blue prints.

City of Manchester, for locating boxes police patrol system. Blue print.

City of Manchester, for New England Telephone and Telegraph Co. Two blue prints.

City of Manchester, southern section. Lot map.

City of Manchester, northern section. Lot map.

Derryfield park and adjoining land. Tracing.

Pine Grove cemetery and extensions. Showing water pipe.

Valley cemetery. Lots and avenues.

Total maps, 16.

Four plans of lots in the Pine Grove cemetery have been made in the new book of the city treasurer, and twenty-nine sheets of plans in the sewer book.

Six plans have been made in city clerk's book of streets laid out.

Total of all plans made, 378.

Four plans are under way which will be completed during the year.

Sewer plans brought up to date, 25.

Numbering sheets brought up to date, 6.

Plans lettered and finished, 20.

Plans made for establishment of grade on laid-out streets, 36,210 feet.

Plans made for the establishment of grade on streets not laid out, 5,130 feet.

Total, 41,890 feet, equal to 7.93 miles.

## SEWERS BUILT

STREET.	LOCATION.	Material.	Size in inches.
Amherst.....	From east of Ashland easterly .....	Akron..	8
Auburn.....	From Canton easterly.....	" ..	10
Auburn south back....	From west of Maple easterly.....	" ..	10
Auburn south back....	From Wilson easterly.....	" ..	10
Beacon.....	From Spruce northerly .....	" ..	8
Beech.....	From Gore northerly.....	" ..	10
Beech.....	From Sagamore northerly.....	" ..	10
Beech east back.....	From south of Concord northerly.....	" ..	10
Belmont.....	Mead to old Bridge.....	" ..	12
Canton.....	From south of Spruce to Auburn.....	" ..	12
Cedar .....	Wilson to Wilson east back.....	" ..	10
Cedar south back....	Pine to west of Beech.....	" ..	15
Cedar south back....	From Wilson east back easterly .....	" ..	10
Central south back....	Union to Beech.....	" ..	{ 15 12
Central south back....	From east of Wilson easterly.....*	" ..	12
Christian brook.....	Liberty east back to Beech east back.	Brick ..	42x63
Clarke .....	River road to Elm.....	" ..	24x36
Elm .....	Clarke to Thayer.....	" ..	22x33
Elm .....	Thayer to Carpenter.....	Akron..	15
Elm.....	From Clarke southerly.....	" ..	8
Elm west back .....	Christian brook to Salmon.....	" ..	10
Granite.....	At east end of bridge .....	Steel....	36
Granite.....	At east end of bridge.....	Brick....	36
Green south back....	From Union westerly.....	Akron..	12
Green south back....	From Union easterly.....	" ..	10
Grove.....	From west of Taylor westerly .....	" ..	10
Grove south back....	From west of Union easterly.....	" ..	10
Jewett ..	From north of Young to Clay.....	" ..	15

IN 1896.—EAST SIDE.

Length in feet, new.	Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.
78	.....	.....	.....	1	.....	\$13.25	\$0.17	Oct. 3	Oct. 4
510	.....	1	2	21	.....	1,572.25	3.083	Nov. 28	.....
188	.....	.....	1	6	.....	165.58	0.827	Nov. 28	Dec. 1
515	.....	1	.....	19	1	513.27	1.00	June 30	July 15
198	.....	.....	.....	.....	.....	70.44	0.355	" 10	June 12
114	.....	2	.....	3	2	355.19	3.116	March 2	Mar. 26
306	.....	1	.....	8	.....	278.61	0.91	Oct. 7	Oct. 12
190	.....	1	.....	.....	.....	56.27	0.296	July 7	July 9
242	.....	1	.....	5	1	410.04	1.694	June 23	June 30
352	.....	1	.....	9	2	388.14	1.102	" 1	" 20
212	.....	1	.....	5	1	198.50	0.936	Sept. 17	Oct. 4
.....	894	3	.....	62	6	277.60	0.925	" 17	" 4
300	.....	1	.....	10	1	2,370.87	2.651	July 24	Sept. 16
.....	202	2	.....	9	1	899.23	1.606	April 27	May 9
.....	358	2	.....	23	2				
92	2	1	.....	3	.....	82.28	0.872	Sept. 19	Sept. 23
1,010	.....	3	.....	.....	* 3	5,187.08	5.135	April 20	May 30
508	.....	2	.....	10	4	1,927.26	3.794	August 11	Dec. 30
462	.....	1	.....	16	.....	1,752.78	3.794	" 11	" 30
754	.....	2	.....	13	1	3,016.00	4.00	Sept. 17	" 30
182	.....	.....	.....	3	.....	34.48	0.189	.....	.....
606	.....	3	.....	14	.....	734.78	1.212	Sept. 16	Sept. 30
.....	39	} 1	.....	.....	.....	592.27	6.966	.....	.....
.....	46		.....	.....	.....				
104	.....	1	.....	.....	.....	150.20	1.444	.....	.....
498	.....	1	.....	19	.....	686.19	1.38	.....	.....
101	.....	1	.....	4	.....	137.02	1.356	June 22	July 3
324	.....	2	.....	10	3	468.37	1.446	Oct. 15	Oct. 27
877	.....	3	.....	36	3	3,635.13	4.145	April 20	June 12

\* To take surface water.

## SEWERS BUILT IN 1896.

STREET.	LOCATION.	Material.	Size in inches.
Liberty east back.....	From Christian brook northerly.....	Akron..	10
Lincoln.....	From Silver northerly.....	" ..	8
Malvern.....	At Bridge.....	" ..	15
Mead.....	Hall to Belmont.....	" ..	12
Merrimack south back	From Beech westerly.....	" ..	12
Old Bridge.....	From Belmont westerly.....	" ..	12
Pine.....	Auburn to Cedar south back.....	" ..	15
Porter.....	From Amherst northerly.....	" ..	10
Ray.....	From Ray brook northerly.....	" ..	10
River road.....	At Ray brook.....	Iron....	20
River road.....	Monroe to Clarke.....	Brick..	24x36
Sagamore.....	From east of Beech to Oak.....	Akron..	12
Silver.....	Union to Lincoln.....	Brick..	38x57
Union.....	From Appleton northerly.....	Akron..	8
Union east back.....	From Christian brook southerly.....	" ..	12
Union east back.....	Christian brook to Webster.....	" ..	12
Valley.....	From Wilson to east of Belmont.....	Iron....	20
Valley.....	From Wilson to east of Belmont.....	Akron..	20
Valley.....	From Jewett easterly.....	" ..	10
Walnut east back.....	From Christian brook southerly.....	" ..	10
Wilson.....	Valley to Prescott.....	" ..	12
Wilson.....	Prescott to Harvard.....	" ..	10
Wilson east back.....	Cedar to Cedar south back.....	" ..	10
Wilson Hill.....	Laurel to Merrimack.....	" ..	10
Wilson Hill.....	Merrimack northerly.....	" ..	10
Total.....	.....	.....	.....

Average cost of sewers, East Side { Division No. 2, \$3 123  
 " No. 7, \$1.586

Average cost of sewers, both sides of river, \$2.503

— EAST SIDE.— *Continued.*

Length in feet, new.	Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.	When finished.
453	.....	1	1	14	.....	\$473.83	\$1.045	Sept. 21	Sept. 28
215	.....	.....	.....	.....	.....	38.02	0.180	August 15	Aug. 17
67	.....	1	.....	.....	.....	108.24	1.615	May 9	May 13
362	.....	1	1	9	1	655.56	1.811	Dec. 30	Jan. 18
148	.....	1	.....	3	1	163.14	1.102	Sept. 16	Sept. 22
125	.....	1	.....	2	2	127.62	1.021	" 26	" 29
142	.....	1	.....	.....	.....	336.54	2.370	July 24	" 16
260	.....	2	.....	10	3	149.89	0.576	May 11	May 14
504	.....	2	.....	21	.....	475.43	0.943	April 17	April 25
24	.....	.....	.....	.....	}	2,606.39	3.794	August 11	.....
663	.....	4	.....	14					
829	.....	3	.....	27	8	2,617.17	3.157	June 12	Aug. 6
1,788	.....	3	.....	52	5	16,124.13	9.018	May 20	" 15
150	.....	1	.....	3	.....	79.50	0.530	Sept. 26	Sept. 29
350	.....	1	.....	13	.....	565.00	1.615	June 13	Aug. 12
607	.....	2	.....	20	2	942.54	1.552	" 13	" 12
12	.....	.....	.....	.....	}	2,400.63	2.304	May 14	June 12
1,030	.....	2	1	29					
300	.....	1	.....	9	.....	229.00	0.763	" 5	May 7
410	.....	1	.....	12	.....	445.71	1.087	Nov. 16	Nov. 23
807	.....	3	.....	25	7	779.02	0.965	Oct. 19	" 10
336	.....	1	.....	11	4	294.80	0.877	" 19	" 10
126	.....	1	.....	3	.....	106.27	0.843	" 3	Oct. 5
257	.....	2	.....	5	.....	400.14	1.557	" 1	" 7
250	.....	.....	.....	3	.....	35.94	0.144	.....	.....
18,938	1,541	69	10	594	73	\$56,127.59	.....	.....	.....

## SEWERS BUILT IN

STREET.	LOCATION.	Material.	Size in inches.
Amherst road.....	Mast to south of Carroll.....	Akron..	24
Amherst road.....	South of Carroll southerly.....	" ..	10
B.....	From C northerly.....	" ..	10
Boynton.....	C to McDuffie.....	" ..	15
Carroll.....	From Amherst road southerly.....	" ..	10
Cartier east back.....	From Putnam southerly.....	" ..	10
Conant.....	From west of Cartier westerly.....	" ..	10
Dartmouth.....	Dickey to Frederick.....	" ..	10
Granite.....	At west end of bridge.....	Steel ..	24
Granite.....	At west end of bridge.....	Akron..	15
Hevey east back.....	From Amory southerly.....	" ..	12
Main west back.....	From Wayne southerly.....	" ..	12
Mast.....	From west of Bowman easterly.....	" ..	10
Mast.....	From west of Riddle westerly.....	" ..	24
McDuffie.....	Boynton to Huntress.....	" ..	10
Parker avenue.....	From Parker southerly.....	" ..	8
Princee.....	Boynton to Huntress.....	" ..	10
Quincy.....	From Douglas southerly.....	" ..	10
Second.....	From Schiller southerly.....	" ..	12
Tilton.....	From Milford northerly.....	" ..	10
Total.....	.....	.....	.....

\* Cesspool manholes.

Average cost of sewers, West Side, per foot, \$1.70.

Average cost of sewers, both sides of river, per foot, \$2.503.



1896.—WEST SIDE.

Length in feet, new.	Length in feet, relaid.	Manholes.	Lampholes.	House Y's.	Cesspool Y's.	Total cost.	Cost per foot.	When started.		When finished.
416	.....	1	...	11	4	\$2,238.26	\$5.381	May	29	Oct. 2
184	.....	...	...	1	.....	141.47	0.769	"	29	" 2
219	.....	1	...	7	1	188.17	0.905	July	29	Aug. 1
577	.....	2	...	20	3	527.53	0.914	April	21	April 27
250	.....	1	1	3	1	178.64	0.715	Oct.	3	Oct. 6
344	.....	*3	1	.....	3	247.80	0.721	May	10	May 21
56	.....	...	...	2	.....	36.52	0.652	June	16	June 17
354	.....	...	1	14	2	322.97	0.913	"	17	" 24
.....	39	.....	.....	.....	4	562.85	3.127	Oct.	6	Oct. 20
.....	141	1	1	.....						
404	.....	1	...	16	.....	291.20	0.721	May	5	May 9
350	.....	2	...	2	1	306.99	0.877	Oct.	7	Oct. 19
202	.....	1	...	4	1	203.91	1.010	June	9	June 15
610	.....	2	...	15	6	3,297.42	5.602	May	29	Oct. 2
512	.....	1	...	18	3	313.99	0.613	April	30	May 2
150	.....	1	1	5	.....	60.58	0.404	Nov.	11	Nov. 13
588	.....	2	...	17	3	299.00	0.509	April	28	April 30
84	4	....	1	4	.....	56.88	0.646	August	25	Aug. 27
290	.....	1	...	12	.....	762.08	2.973	May	12	May 28
277	.....	...	1	11	1	245.02	0.881	April	13	April 16
5,867	184	20	7	152	33	\$10,281.28	.....	.....	.....	.....

## PIPE REMOVED WHERE NEW SEWERS HAVE BEEN BUILT.

STREET.	LOCATION.	Material.	Size in inches.	Length in feet.
Cedar south back....	Pine to Union.....	Cement...	12	466
Cedar south back....	Union to west of Beech.....	Akron....	12	400
Central south back..	Union to Beech.....	Cement..	12	560
Granite.....	At east end of Bridge.....	Brick ....	36	85
Granite.....	At west end of Bridge.....	" ....	24	160
				1,671

## SUMMARY OF SEWERS BUILT IN 1896.

	Feet.
Total 42 x 63 inches, brick.....	1,010
38 x 57 inches, brick.....	1,788
24 x 36 inches, brick.....	1,171
22 x 33 inches, brick.....	462
36-inch, brick.....	46
36-inch steel pipe.....	39
24-inch Akron pipe.....	1,026
24-inch steel pipe.....	39
20-inch Akron pipe.....	1,030
20-inch iron pipe.....	36
15-inch Akron pipe.....	3,654
12-inch Akron pipe.....	5,422
10-inch Akron pipe.....	9,834
8-inch Akron pipe.....	973
Total.....	26,530

Following is the total amount of sewerage in the city, January 1, 1897:

	Feet.
Total 8-inch Akron pipe.....	9,367
10-inch Akron pipe.....	71,734

	Feet.
Total 12-inch Akron pipe.....	78,091
15-inch Akron pipe.....	25,159
18-inch Akron pipe.....	3,964
20-inch Akron pipe.....	11,266
24-inch Akron pipe.....	6,282
Total Akron pipe.....	205,863
Equal to 39.059 miles.	

	Feet.
8-inch Portland pipe, old.....	90
12-inch Portland pipe, old.....	3,990
18-inch Portland pipe, old.....	770
Total Portland pipe, old.....	4,850
Equal to 0.919 miles.	

	Feet.
10-inch Portland pipe, new.....	7,605
12-inch Portland pipe, new.....	4,526
15-inch Portland pipe, new.....	4,518
18-inch Portland pipe, new.....	395
20-inch Portland pipe, new.....	3,345
24-inch Portland pipe, new.....	3,284
Total Portland pipe, new.....	23,673
Equal to 4.483 miles.	

	Feet.
9-inch cement pipe.....	11,658
12-inch cement pipe.....	20,014
15-inch cement pipe.....	490
18-inch cement pipe.....	860
24-inch cement pipe.....	735
16 x 24 inches, cement pipe.....	1,697
Total cement pipe.....	35,454
Equal to 6.716 miles.	

	Feet.
10-inch earthen pipe.....	1,175
12-inch earthen pipe.....	2,545
	<hr/>
Total earthen pipe.....	3,720
Equal to 0.704 miles.	

	Feet.
18-inch brick sewers.....	5,532
24-inch brick sewers.....	1,900
29-inch brick sewers.....	1,600
36-inch brick sewers.....	506
42-inch brick sewers.....	446
44-inch brick sewers.....	1,195
57-inch brick sewers.....	1,400
60-inch brick sewers.....	285
17 x 26 inches, brick sewers.....	1,506
20 x 30 inches, brick sewers.....	1,197
22 x 33 inches, brick sewers.....	849
24 x 36 inches, brick sewers.....	11,051
26 x 39 inches, brick sewers.....	514
29½ x 44 inches, brick sewers.....	4,530
30 x 46 inches, brick sewers.....	1,360
32 x 48 inches, brick sewers.....	3,279
36 x 54 inches, brick sewers.....	1,067
38 x 57 inches, brick sewers.....	4,388
40 x 44 inches, brick sewers.....	790
42 x 63 inches, brick sewers.....	3,104
50 x 75 inches, brick sewers.....	712
	<hr/>
Total brick sewers.....	47,211
Equal to 8.941 miles.	

	Feet.
8-inch iron pipe.....	24
10-inch iron pipe.....	12
12-inch iron pipe.....	24
14-inch iron pipe.....	24

	Feet.
20-inch iron pipe.....	158
24-inch iron pipe.....	24
36-inch iron pipe.....	277½

Total iron pipe..... 543½

Equal to 0.103 miles.

	Feet.
24-inch steel pipe.....	67
36-inch steel pipe.....	39
48-inch steel pipe.....	372

Total steel pipe..... 478

Equal to 0.09 miles.

Total in all sewers, 321,792½ feet, equal to 60.945 miles.

## STREET GRADES ESTABLISHED IN 1896.

No. of plan.	STREET.	LOCATION.	Length in feet.	Order passed.
4092	Alsace .....	Kelley to Bremer.....	550	Jan. 4, 1897
1000	Amherst.....	Belmont to Beacon.....	452	June 2
.....	Beacon .....	Hanover to Amherst.....	312	June 2
4181	Carpenter ...	Elm to Union.....	1,346	June 19
1084-5	Chestnut ....	Clarke to Trenton.....	1,645	Jan. 4, 1897
.....	Concord.....	Belmont to Beacon.....	450	Aug. 4
.....	Essex.....	Amory southerly.....	574	Aug. 4
1070	Lake ave ....	J. Hall road to Hanover.....	1,450	Oct. 6
.....	Milton.....	Hanover to Amherst .....	312	June 2
741	Salmon.....	Walnut to Beech.....	220	Jan. 7
993-4-5-6	South Main..	Boynton to Bedford town line....	4,040	Jan. 4, 1897
			11,351	

Equal to 2.15 miles.

On these plans both sides of the street are shown, making the actual distance of grade established 22,702 feet, or 4.30 miles.

The following shows the amount of concrete laid for the city in 1896 by John T. Underhill & Co., under the direction of the street and park commissioners. The measurements relating thereto have been made by this department, and rendered as vouchers for the same:

## STREET CROSSINGS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amory and Dubuque (3).....	90.67	\$0.75	\$68.00
Auburn at Wilson .....	30.22	.75	22.66
Auburn south back at Wilson.....	16.89	.75	12.66
Auburn south back at Wilson, repairs.....	5.78	.75	4.33
Beacon at Manchester .....	20.00	.75	15.00
Beacon at Lake avenue.....	18.67	.75	14.00
Bell at Wilson .....	30.22	.75	22.66
Bridge at Union, top-dressed.....	27.11	.37	10.03
Bridge and Maple (2).....	62.22	.75	46.66
Bridge and Maple (2) top-dressed.....	63.56	.37	23.51
Cedar at Wilson.....	30.22	.75	22.66
Cedar south back at Wilson.....	16.89	.75	12.66
Clarke and Chestnut (2).....	62.22	.75	46.66
Clarke and Chestnut, patching .....	3.90	.45	1.75
Columbus at Amory.....	30.22	.75	22.66
East High and Belmont (2).....	57.78	.75	43.33
Elm at Welch avenue.....	55.56	.75	41.67
Elm near Brown avenue.....	56.00	.75	42.00
Elm at Clarke.....	88.00	.75	66.00
Gore at Walnut.....	30.22	.75	22.66
Green at Wilson.....	30.22	.75	22.66
Green south back at Wilson .....	16.89	.75	12.66
Grove at Wilson.....	30.22	.75	22.66
Grove south back at Wilson .....	17.74	.75	13.33
Hayward at Jewett.....	32.89	.75	24.66
Hevey at Amory .....	30.22	.75	22.66
Hevey east back at Amory.....	17.33	.75	13.00
Hosley at Summer .....	25.00	.75	18.75
Lake avenue and Pine, top-dressed.....	28.89	.37	10.68
Laurel south back at Milton.....	17.33	.75	13.00
Liberty east back at Salmon.....	17.77	.75	13.33
Maple at Cedar.....	29.33	.75	22.00
Merrimaek and Pine (3).....	89.06	.75	66.79
Milton and Laurel (4).....	92.00	.75	69.00
Orange and Pine (3) top-dressed.....	84.71	.37	31.34
Orange and Walnut (2).....	62.04	.75	46.52
Orange and Beech (2) .....	56.89	.75	42.66
Pearl at Walnut .....	28.00	.75	21.00
Prospect and Pine (2).....	58.22	.75	28.66
Prospect south back at Pine.....	17.78	.75	13.33
Prospect and Linden (2).....	58.67	.75	44.00
Prout avenue at Hayward.....	20.44	.75	15.33
Sagamore and Walnut (2).....	61.33	.75	46.00
Sagamore and Walnut, patching .....	11.61	.45	5.22
Spruce at Wilson (2).....	60.44	.75	45.33
Spruce south back at Wilson, repairs.....	17.77	.45	7.99
Summer at Wilson .....	30.22	.75	22.66
Summer south back at Wilson.....	16.89	.75	12.66
Union east back at Bridge, top-dressed.....	17.78	.37	6.58
Union at Salmon.....	28.89	.75	21.66
Warren at Pearl.....	28.44	.75	21.33
	1,911.36	.....	\$1,339.02

## SIDEWALKS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Beacon and Lake avenue at Abbott's.....	46.56	\$0.35	\$16.29
Bridge and Maple, patching.....	24.47	.45	11.01
Milton at George W. Cheney's.....	180.59	.35	63.20
Milton at George W. Cheney's driveway.....	32.89	.75	24.66
Orange and Pine, patching.....	10.56	.45	4.75
	295.07	.....	\$119.91

## ROADWAYS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Chestnut, Hanover to Manchester, top-dressed ....	1,106.47	\$0.50	\$553.24
Concord, Elm east back to Vine, top-dressed .....	252.86	.50	176.43
	1,359.33	.....	\$729.67

The following shows the amount of concrete laid for the city in 1896 by John T. Underhill & Co., under the direction of the committee on lands and buildings and the cemetery trustees:

LOCATION.	Square yards.	Price per yd.	Total cost.
East Manchester schoolhouse, repairs.....	28.39	\$0.37	\$10.50
High school, driveways in rear.....	359.64	.44	158.24
Main-street engine-house, repairs.....	.....	.....	10.00
Parker school, around building .....	118.66	.45	53.40
Valley cemetery.....	62.60	.20	12.52
	569.29	.....	\$244.66

The following shows the amount of concrete laid for the city in 1896 by the Charles H. Robie Co., under the direction of the street and park commissioners. The meas-

urements relating thereto have been made by this department, and rendered as vouchers for the same:

## STREET CROSSINGS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amherst at Belmont.....	26.22	\$0.75	\$19.66
Appleton and Chestnut (3).....	84.71	.75	63.53
Bath at Third .....	36.44	.75	27.33
Bay at North.....	30.20	.75	22.65
Beaumont at Amory.....	29.70	.75	22.27
Beaumont at Amory, patching.....	10.60	.50	5.30
Beech and Orange, top-dressed.....	32.89	.37	12.16
Beech at Myrtle, patching.....	28.89	.37	10.68
Beech at Myrtle.....	8.00	.75	6.00
Beech and Orange, patching.....	35.11	.37	12.99
Bridge and Walnut (2).....	61.78	.75	46.33
Bridge and Walnut (2) re-covered.....	61.78	.37	22.85
Cartier east back at Wilton.....	17.78	.75	13.33
Central and Lincoln (3).....	55.56	.75	41.67
Central and Lincoln, patching.....	20.00	.37	7.40
Central at Wilson.....	27.56	.75	20.67
Central at Hall, top-dressed.....	28.00	.37	10.36
Concord and Walnut (2) .....	40.00	.75	30.00
Concord and Walnut (2) top-dressed.....	56.27	.37	20.82
Concord and Beech (2).....	31.83	.75	23.87
Concord and Beech (2) top-dressed.....	28.78	.37	10.64
Concord and Ash.....	18.67	.75	14.00
Concord and Ash, top-dressed.....	10.67	.37	3.94
Coolidge avenue at Amory.....	34.60	.75	25.95
Elm at Christian Brook, top-dressed.....	37.78	.25	9.44
Elm at North.....	15.97	.75	11.97
Elm and Webster, repaired.....	3.50	.75	2.62
Green south back at Union.....	16.89	.75	12.66
Grove south back at Union.....	17.33	.75	13.00
Hall at Summer.....	32.44	.75	24.33
Harrison and Walnut east back.....	17.33	.75	13.00
Harrison and Beech.....	15.10	.75	11.13
Harrison and Beech (2) top-dressed.....	51.56	.37	19.07
Lake avenue west of Hall.....	9.00	.75	6.75
Lake avenue and Belmont.....	30.00	.75	22.50
Lowell and Belmont (2).....	56.90	.75	42.67
Malvern at Lowell.....	28.73	.75	21.58
Market at Elm west back, top-dressed.....	28.00	.37	10.36
Myrtle at Walnut.....	9.78	.75	7.33
Myrtle at Walnut, patching.....	12.00	.37	4.44
Myrtle and Ash (2) top-dressed.....	66.22	.37	24.50
Russell and Harrison (2).....	58.60	.75	43.95
Salmon at Walnut .....	30.22	.75	22.60
Salmon at Walnut, patching.....	7.56	.25	1.89
Second at Granite, top-dressed.....	27.44	.37	10.15
South Main at A.....	42.00	.75	31.50
Tilton at Milford.....	7.94	.75	5.95
Tilton at Milford, top-dressed.....	7.94	.37	2.93
Union at Brook.....	29.33	.75	22.00
Union at Brook (2) top-dressed.....	58.84	.37	21.77
Walnut and Orange .....	5.56	.75	2.67
Walnut and Orange, patching.....	11.56	.37	4.27
Walnut at Sagamore (2).....	53.33	.75	40.00
Total.....	1,602.94	.....	\$961.63



## ROADWAYS.

LOCATION.	Square yards.	Price per yd.	Total cost.
Amherst, patching .....	14.25	\$0.50	\$7.12
Chestnut, Hanover to Amherst, top-dressed.....	1,105.67	.50	552.89
Chestnut, patching .....	118.56	.50	59.28
Hanover, patching .....	18.00	.50	9.00
Lake avenue at engine-house, repairs .....	7.20	.50	3.60
Main street at engine-house, patching.....	174.44	.50	87.22
Merrimack, west of Elm, patching .....	108.06	.50	54.03
Nutfield Lane and Amherst, patching .....	10.00	.50	5.00
Union, Concord to Lowell, patching .....	507.86	.50	253.93
Union, patching .....	253.33	.50	126.67
Union and Central south back.....	20.94	1.00	20.94
Total.....	2,338.31	.....	\$1,179.68

## SIDEWALKS.

LOCATION.	Square yards.	price per yd.	Total cost.
Amory at square .....	127.08	\$0.35	\$44.48
Auburn at M. Sullivan's, repaired.....	.....	.....	8.25
Bridge and Elm at fountain .....	2.00	.40	0.80
Bridge and Walnut, patching .....	31.61	.45	14.22
Brook and Union, patching .....	25.44	.35	8.90
Central and Lincoln, repaired.....	22.11	.25	5.52
Central and Wilson, repaired.....	12.22	.25	3.05
Central and Hall .....	2.78	.45	1.25
Concord square, Chestnut.....	300.10	.50	150.05
Concord square, Chestnut, top-dressed... ..	81.28	.35	28.44
Elm at Christian Brook.....	12.89	.40	5.15
Granite bridge, approaches.....	167.30	.50	83.65
Granite street at Gage & McDougall's.....	47.00	.50	23.50
Harrison at Mrs. E. E. Patch's, repaired.....	80.22	.40	32.08
Lake avenue at Peter McQuillan's.....	98.00	.42	41.16
McGregor at mill entrance.....	6.67	.37	2.46
Total .....	1,016.70	.....	\$452.96

The following shows the amount of concrete laid for the city in 1896 by the Charles H. Robie Co., under the di-

rection of the committee on lands and buildings and cemetery trustees.

LOCATION.	Square yards.	Price per yd.	Total cost.
Ash street school, walks and corners.....	565.51	\$0.44	\$248.82
East Manchester school.....	19.33	.50	9.66
Pine Grove cemetery, patching.....	9.00	.25	2.25
Pine Grove cemetery, lodge house cellar.....	22.36	.40	8.94
Pine Grove cemetery, eaves.....	18.25	.40	7.30
Pine Grove cemetery.....	43.56	.50	21.78
Pine Grove cemetery, driveway.....	423.31	.65	275.15
Police station at patrol stable.....	84.11	.50	42.05
South Manchester engine-house, driveway.....	35.44	.75	26.58
South Manchester school, driveway.....	30.00	.75	22.50
South Manchester school, driveway.....	110.83	.75	83.12
South Manchester school, walks.....	115.97	.40	46.38
South Manchester school, walks re-covered.....	294.45	.35	103.05
Valley cemetery, walks.....	66.50	.35	23.27
Valley cemetery, walks.....	82.42	.35	28.84
Varney school, walk.....	8.22	.50	4.11
Varney school, walks.....	106.44	.35	37.25
Varney school, sidewalk.....	155.75	.40	62.30
Varney school, driveway.....	8.44	.50	4.22
Webster-street school.....			5.00
Total.....	2,199.89		\$1,062.57

## SUMMARY.

*Concrete laid by John T. Underhill & Co.*

LOCATION.	Square yards.	Total cost.
Crossings.....	1,911.36	\$1,339.02
Sidewalks.....	295.07	119.91
Roadways.....	1,359.33	729.67
Miscellaneous.....	569.29	244.66
Total.....	4,135.05	\$2,433.26

*Concrete laid by the Charles H. Robie Company.*

LOCATION.	Square yards.	Total cost.
Crossings.....	1,602.94	\$961.63
Sidewalks.....	1,016.70	452.96
Roadways.....	2,338.31	1,179.68
Miscellaneous.....	2,199.89	1,062.57
Total.....	7,157.84	\$3,656.84

Total concrete laid for the city, 11,292.89 square yards, at a cost of \$6,090.10.

## BRIDGES.

The following table gives the dimensions, material, and number of spans of the various bridges within the city limits:

LOCATION.	Length in feet.	Width of roadway	No. of walks.	Width of walks.	Material.	Arch- es or spans.
Amoskeag .....	765.5	20	1	5.5	Wood.	3
Bridge street, at canal .....	57	22.5	2	7	Iron.	1
Bridge st., McGregor and approaches	1,085	24	2	6	"	3
Cohas avenue, at Great Cohas.....	36	30.5	.....	.....	Stone.	2
Derry road, at Great Cohas.....	38	20	.....	.....	Wood.	1
Derry road, near Cohas avenue.....	20	17	.....	.....	"	1
Derry road, near town line.....	21	20.5	.....	.....	"	1
Dunbarton road, Black brook .....	25	17.5	.....	.....	"	1
Elm street, at railroad .....	89	29.5	1	4.5	"	1
Front street, at Black brook.....	16.5	33	.....	.....	"	1
Granite street, at canal.....	56.3	37.3	2	6	Iron.	1
Granite street, at river.....	468	40	2	8	Steel.	4
Harvey road, at Great Cohas.....	32	21	.....	.....	Wood.	1
Island Pond road, outlet to lake ....	41	16.7	.....	.....	"	1
Main street, at 'Squog river.....	90	34	2	6.5	Stone.	2
Mammoth road, at Great Cohas.....	38	18	.....	.....	Wood.	1
Mammoth road, near town line.....	14	20	.....	.....	"	1
Mill road, at Harvey's mill.....	59	20.5	.....	.....	"	3
Parker street, at railroad.....	53	24	2	6	Iron.	1
River road, at Little Cohas.....	16	20	.....	.....	Wood.	1
River road, below James Cheney's...	6	16	.....	.....	"	1
River road, at Goffe's Falls.....	30	30	.....	.....	"	1
Second street, at 'Squog river.....	62	32.5	2	8.75	Steel.	1
Second street, at 'Squog river.....	127	32.5	2	8.75	"	1
South road .....	12	22	.....	.....	Wood.	1
Webster road, at water-works dam...	100	17.5	.....	.....	"	5
Weston road, east of D. Connor's....	6	16	.....	.....	"	1

Stone bridges, 2; steel, 3; iron, 4; wood, 18; total, 27.

## NEW HIGHWAYS LAID OUT IN 1896.

STREETS.	LOCATION.	When laid out.	Width in feet.	Length in feet.	Petition of
Bay .....	Trenton northerly.....	June 19	50	580	A. O. Brown.
Chestnut.....	North of Clarke to Trenton.....	April 24	50	1,337	J. Carpenter.
Cypress... ..	Young to Clay.....	Sept. 25	50	860	J. A. Kimball.
Glenwood ave	Page easterly.....	Sept. 25	50	725	Geo. F. Laird.
Holt avenue..	Candia road to Lake Shore road.....	July 31	66	7,850	G. W. Dearborn.
Maynard ave.	Huse road to Porter.....	Aug. 28	50	1,345	J. H. Maynard.
Merrill.....	Jewett easterly.....	April 22	50	350	P. O. Woodman.
North .....	Union to Walnut.....	Aug. 28	50	220	G. L. Reed.
Plummer.....	Pine to Union.....	May 26	40	450	Thos. Stewart.
Sagamore. ...	Oak to Smyth road.....	June 19	40	1,453	W. R. Call.
Somerville ...	Jewett to Cypress.....	July 31	50	410	C. W. Danforth.
Summer .....	Beech westerly.....	Nov. 25	50	200	Pat. J. Horan.
				15,780	

Equaling 3.00 miles.

The following table shows the streets laid out to date which have not been built. Many of these have been turnpiked, and are in passable condition, but have not been brought to grade, nor have the gutters or sidewalks been constructed. Those marked (\*) in most cases have not been opened, and are impassable with a few exceptions. It will necessitate the expenditure of a considerable amount of money to properly build them to grade.

## STREETS LAID OUT TO DATE BUT NOT BUILT.

STREETS.	Length in feet.	When laid out.
Ainsworth avenue, Hayward to Young.....	499	August 31, 1893.
Alfred, Hanover to Amherst.....	212	July 19, 1893.
Allen, Main to Boynton.....	700	July 24, 1891.
Alsace, south of Kelley northerly.....	1,160	May 26, 1893.
Amory to Kimball.....	2,800	November 17, 1891.
Amory extension to Bartlett.....	735	June 26, 1892.
Arab, Union to Hooksett line.....	3,162	July 21, 1895.
Ash, Gore northerly *.....	590	June 9, 1893.
Auburn, Maple to Lincoln.....	600	July 28, 1891.
Auburn, Wilson to Belmont.....	809	August 15, 1892.
Auburn, Cypress to Platts avenue *.....	967	June 9, 1893.
Bartlett, Amory extension southerly.....	1,800	July 26, 1892.
Bay, Trenton northerly.....	580	June 19, 1896.
Beech, Webster to Clarke *.....	1,176	November 29, 1893.
Bell, Wilson easterly.....	636	August 15, 1892.
Belmont, Young to Clay.....	1,395	September 1, 1891.
Benton, Jones to James Hall road.....	240	August 31, 1893.
Blaine, Second to Hiram.....	395	May 20, 1892.
Boutwell, Amory northerly *.....	1,693	May 26, 1893.
Bremer, Coolidge avenue to Rimmon.....	400	October 23, 1895.
Byron, Brown avenue to Josselyn.....	998	October 3, 1893.
Campbell, Union to Ash.....	860	September 26, 1892.
Campbell, Ash to Hooksett road.....	2,900	September 20, 1895.
Canal, 82 feet north of Pleasant to Granite.....	1,023	January 15, 1892.
Canton, Spruce to Auburn.....	550	August 2, 1892.
Cedar, Wilson easterly.....	665	August 15, 1892.
Central, James Hall road westerly *.....	204	July 6, 1892.
Chestnut, north of Clarke to Trenton *.....	1,337	April 24, 1896.
Clay, Jewett to Cypress.....	387	August 31, 1893.
Cleveland, Blaine to Merrimack river.....	1,487	May 20, 1892.
Colby, West Hancock to Log.....	220	November 16, 1893.
Columbus avenue, Cartier to Amory *.....	3,110	May 20, 1892.
Cypress, Lake avenue to Massabesic *.....	1,300	December 28, 1892.
Cypress, Young to Clay.....	860	September 25, 1896.
Dartmouth, West Hancock to Frederick.....	636	August 28, 1891.
Erie, South Main westerly.....	470	June 20, 1893.
Essex, Amory southerly.....	575	November 20, 1893.
Forest, Milford to Old Mast road.....	1,460	December 16, 1890.
Foster avenue, Valley to Hayward.....	490	July 31, 1895.
Glenwood ave., Mammoth road to J. Croniu's *.....	2,085	December 28, 1892.
Glenwood avenue, Page easterly.....	725	September 25, 1896.
Grant, Hanover to Mammoth road *.....	1,008	October 20, 1893.
Green, Douglas northerly.....	96	July 28, 1891.
Green, Pine to Beech.....	990	August 31, 1893.
Green, Wilson to Belmont *.....	809	August 15, 1892.
Grove, Wilson to Belmont *.....	809	September 9, 1892.
Grove, Taylor westerly.....	757	December 28, 1892.
Hale, across Wolf and Wagner land.....	800	July 25, 1894.
Hall, Hayward to Young.....	125	July 6, 1892.
Hall, Lake avenue to Bell.....	1,890	June 23, 1893.
Hall, Pearl to north side of Prospect *.....	716	June 12, 1891.
Harrison, Russell to Hall.....	1,218	October 25, 1892.
Harrison, Hall to Belmont.....	365	May 21, 1894.
Harvard, Union to Maple.....	1,190	November 18, 1892.
Harvell, Main to Second.....	1,060	July 25, 1894.
Hayes avenue, Massabesic to Chase avenue.....	471	October 19, 1894.
Hayward, Beech to Mammoth road.....	6,000	September 21, 1893.
Highland Park avenue, Candia road to Glenwood avenue.....	1,007	December 28, 1892.
Holt avenue, Candia road to Lake Shore road *.....	7,850	July 31, 1896.
Hosley, Green to Summer.....	490	November 16, 1893.
Huntress, Bank to north of Prince.....	648	September 18, 1891.

## STREETS LAID OUT TO DATE BUT NOT BUILT.—Continued.

STREETS.	Length in feet.	When laid out.
Jewett, Cilley road to Weston road *	3,650	November 27, 1891.
Joliette, south of Kelley northerly	1,150	May 26, 1893.
Jones, Nelson to R. I. Stevens's land	562	August 31, 1893.
Josselyn, Kyron to Varney	161	October 3, 1893.
Kelley, to M. & N. W. R. R.	652	June 23, 1891.
Kennedy, Brown avenue to Josselyn	922	September 21, 1891.
Knowlton, Hayward southerly	487	November 27, 1891.
Lafayette, Amory northerly *	1,690	May 26, 1893.
Laval, Amory northerly *	1,698	May 26, 1893.
Liberty, North southerly	150	April 26, 1892.
Liberty, south of North to Salmon	325	June 12, 1895.
Lincoln, Cedar to Shasta *	4,321	May 20, 1892.
Longwood ave., Mammoth rd. to Woodbine ave.	1,100	December 28, 1892.
Maple, Gore northerly *	600	June 9, 1893.
Maynard avenue, Huse road to Porter *	1,345	August 28, 1896.
McKinnon, Central to Pleasant *	192	June 7, 1892.
McNeil, Second to West Hancock	299	August 28, 1891.
Merrill, Jewett easterly	350	April 22, 1896.
Merrimack, east of Beacon to Hanover	1,000	July 28, 1891.
Milford, Amherst road westerly	517	December 16, 1890.
Mitchell, Beech to Brown avenue *	3,000	{ October 28, 1890. { November 29, 1892.
Montgomery, Conant northerly	400	May 26, 1893.
Morgan, Amory to Kelley	650	May 26, 1893.
Mystic avenue, Candia road northerly	1,200	December 28, 1893.
Nelson, James Hall road to Mammoth road	509	August 21, 1893.
North, Union to Walnut *	220	August 28, 1896.
Oak, Gore northerly *	600	June 9, 1893.
Oakland avenue, A. W. Palmer's to J. Cronin's	1,500	December 28, 1892.
Orchard avenue, Candia road to C. & P. R. R.	1,337	December 28, 1892.
Pnge, Hanover to Bridge	2,500	June 19, 1889.
Platts avenue, Candia road to C. & P. R. R.	1,052	August 24, 1894.
Plummer, Pine to Union	450	May 26, 1896.
Prospect, Derry old line to Hall	325	May 29, 1889.
Prout avenue, Hayward southerly	500	June 6, 1893.
Putnam, to Dubuque	300	June 5, 1888.
Quincy, Douglas northerly	96	July 28, 1891.
Revere avenue, Candia road to C. & P. R. R.	1,200	December 28, 1892.
Rimmon, to south of Wayne	735	September 26, 1892.
Sagamore, Oak to Smyth road	1,453	June 19, 1896.
Salmon, Walnut to Beech *	270	June 27, 1894.
Schiller, Hale to Wentworth	855	July 25, 1894.
Schiller, Wentworth to Merrimack river	218	July 25, 1894.
Second, Blaine to Main	5,528	September 18, 1891.
Silver, Union to Maple	690	June 7, 1892.
Somerville, Union to Hall	2,925	June 7, 1892.
Somerville, Jewett to Cypress	410	July 31, 1896.
Stevens, Baker southerly	300	November 29, 1892.
Summer, Beech westerly	200	November 25, 1896.
Summer, Wilson to Massabesic	1,480	September 22, 1891.
Titus avenue, Union to Beech	540	May 21, 1894.
Union, Auburn to Nutt road	4,175	October 25, 1892.
Varney, Josselyn to west of B. & M. R. R. *	290	October 3, 1893.
Vinton, Taylor to Jewett	1,256	August 31, 1893.
Wallace, Winter southwesterly *	165	November 23, 1894.
Wayland avenue, Massabesic to Mammoth road	134	August 24, 1894.
Wayne, west of Dubuque westerly	150	June 23, 1893.
Wentworth, West Hancock southerly *	1,546	September 21, 1893.
West Hancock, Merrimack river westerly	700	November 28, 1890.
Wilkins, Rockland avenue to Bedford line	595	July 6, 1892.
Willow, Hayward to Nutt road *	292	June 23, 1893.
Woodbine avenue, Candia road to C. & P. R. R.	1,290	December 28, 1892.
Woodland avenue, C. & P. R. R. to James Dearborn's	770	December 28, 1892.
Woodland avenue, Jas. Dearborn's to Candia rd	426	November 23, 1894.
	135,693	

Equaling 25.70 miles.



**Tabulated Statement of Work Done and Present  
Standing Relative to Streets and Sewers,  
January 1, 1897.**

New streets laid out in 1893...	36,666.00 ft., equal to 6.940 miles.		
“ “ “ 1894...	13,325.00 “ “	2.330	“
“ “ “ 1895...	12,090.00 “ “	2.290	“
“ “ “ 1896...	15,780.00 “ “	3.000	“
New streets built in 1893.....	15,840.00 “ “	3.000	“
“ “ “ 1894.....	18,513.00 “ “	3.506	“
“ “ “ 1895.....	16,943.00 “ “	3.220	“
“ “ “ 1896.....	19,950.00 “ “	3.778	“
Sewers built in 1893.....	21,716.00 “ “	4.110	“
“ “ 1894.....	19,612.00 “ “	3.714	“
“ “ 1895.....	23,152.00 “ “	4.383	“
“ “ 1896.....	26,530.00 “ “	5.024	“
Sewers voted in 1893.....	34,007.00 “ “	6.440	“
“ “ 1894.....	18,366.00 “ “	3.480	“
“ “ 1895.....	24,136.50 “ “	4.569	“
“ “ 1896.....	22,444.00 “ “	4.250	“
Streets laid out but not built to January 1, 1897.....	135,693.00 ft., equal to 25.700 miles.		
Sewers ordered in but not built to January 1, 1897....	35,067.00 “ “	6.640	“
Total amount of sewers January 1, 1896, equal to..	56,240 miles.		
Actual increase in 1896 equal to.....	4.710	“	
Total amount of sewers January 1, 1897.....	60.950 miles.		
Length of streets open for travel.....	588,527.00 ft., equal to 111.463 miles.		
Length of streets planned for on ground.....	88,205.00 “ “	16.705	“
Length of roads open for travel.....	323,400.00 “ “	61.250	“
Length of avenues opened for travel.....	45,257.00 “ “	8.571	“
Length of avenues planned for on ground.....	16,234.00 “ “	3.074	“
	<hr/> 1,061,623.00 “ “	<hr/> 201.065 miles.	

Length of walks on streets.	664,900.00 ft., equal to	125.928 miles.
Length of walks on roads..	4,740.00 " "	.897 "
Length of walks on avenues	33,388.00 " "	6.702 "

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705,028.00 ft., equal to 133.527 miles.

## ROADWAYS.

Cobblestone paving.....	2,720.00 ft., equal to	0.515 miles.
Block paving.....	10,358.00 " "	11.961 "
Coal tar concrete.....	9,346.00 " "	1.770 "
Macadam.....	35,257.00 " "	6.677 "
Telford.....	27,097.00 " "	5.132 "

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Total length of improved streets..... 84,778.00 ft., equal to 16.056 miles.

Streets, roads, and avenues open for travel January 1, 1897, 957,184.00 feet, equal to 181.284 miles.

City Hall step is 219.352 feet above sea level.

The highest point in the city above mean sea level, 539 feet; the lowest, 129 feet.

Four cemeteries belonging to the city have a combined area of 105 acres, and eleven private burying grounds about 50 acres.

The largest sewer in the city is 50 x 75 inches; the smallest, 8 inches. There are seven sewer outlets into the river, two above high water mark, and five submerged from one to eight feet.

The city owns wholly or in part forty-three public buildings, of which one is built of brick and stone, thirty-five of brick, and seven of wood.

The common width of streets is fifty feet; the narrowest is twenty feet; the widest, one hundred.

There are ninety miles of streets having shade trees.

Area of city, 21,700 acres, or 33.906 square miles.

Area of Derryfield park.....	68.00 acres
Oak Hill reservoir park.....	25.65 "
Rimmon park (proposed).....	42.91 "
Stark park.....	30.00 "



Area of West side park.....	9.76 acres
Concord square.....	4.48 "
Hanover square.....	3.00 "
Merrimack square.....	5.89 "
Park square.....	3.49 "
Simpson square.....	0.56 "

Total area of parks.....	123.65 acres
Total area of squares.....	19.67 "

## SUMMARY OF SEWERAGE SYSTEM SINCE 1886.

YEAR.	Miles construct- ed during year.	Miles construct- ed to date.	House connec- tions recorded during year.	House connec- tions recorded to date.	Cost of sewers.	Average cost per mile.
1880.....	1.62	18.66	.....	.....	\$19,919.40	\$12,295.92
1881.....	2.18	20.84	.....	.....	23,895.12	10,961.06
1882.....	3.37	24.21	.....	.....	24,148.13	7,165.65
1883.....	2.54	26.75	.....	.....	21,452.05	8,445.69
1884.....	1.73	28.48	.....	.....	21,548.60	12,455.84
1885.....	1.56	30.04	.....	.....	28,122.84	18,027.46
1886.....	2.15	32.19	.....	.....	44,479.15	20,687.97
1887.....	1.44	33.63	.....	.....	19,893.92	13,815.22
1888.....	1.73	35.36	.....	.....	31,154.19	18,008.20
1889.....	2.66	38.02	.....	2,003	27,513.73	10,343.51
1890.....	1.81	39.83	64	2,067	39,297.97	21,711.68
1891.....	3.08	42.91	153	2,220	55,409.73	17,990.17
1892.....	3.13	46.04	214	2,434	39,724.65	12,691.58
1893.....	3.31	49.35	191	2,625	51,392.15	15,526.83
1894.....	2.91	52.26	258	2,883	46,116.01	15,847.42
1895.....	3.98	56.24	255	3,138	71,859.36	18,055.11
1896.....	4.71	60.95	237	3,375	66,408.87	14,099.33

Total cost for 17 years, \$632,335.87.

In the year 1888 a plan was made by the present city engineer for a system of sewerage embracing the entire city, this being the first comprehensive plan ever compiled for that purpose. Since its adoption the majority of the sewers constructed have followed this plan; those that have not are only temporary, and will have to be re-laid when the growth of the city demands it. Since 1888 there have been 25.59 miles built, at a cost of \$397,722.47; at an average cost of \$15,542.10 per mile.

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### Orders.

The following orders have been written by this department for the various committees.

'AN ORDER to sell land on School Street, West Manchester.

*Ordered,* If the Board of Mayor and Aldermen concur, That the mayor and joint standing committee on lands and buildings be and are hereby authorized to sell the land on School street, containing 12,176 square feet, and known as lots Nos. 30 and 31 on the Amoskeag Co.'s plan of land in said section.

Recommended by the joint standing committee on lands and buildings.

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'AN ORDER to purchase a Desk for the City Treasurer's Office.

*Ordered,* If the Board of Mayor and Aldermen concur, That the mayor and joint standing committee on lands and buildings be and are hereby authorized to purchase a desk for the city treasurer's office, the expense thereof to be charged to the appropriation for City Hall.

Recommended by the mayor and joint standing committee on lands and buildings.

## AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Valley street from Wilson street easterly about 200 feet.

In Beacon street from Spruce street northerly about 150 feet.

In Orange street from Hall to Belmont.

In Clarke street from River road to Elm street.

In Elm street from Clarke to Rowell street.

And the expense thereof to be charged to the appropriation for new sewers.

Recommended by the committee on sewers and drains  
January 27, 1896.

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## AN ORDER to Appropriate Money to build a Public Bath-House.

*Ordered*, If the Board of Mayor and Aldermen concur, That the joint standing committee on finance be and are hereby authorized to appropriate the sum of \$2,500 in the appropriation for 1896, for the purpose of building and maintaining for one year a public bath-house, located at the foot of Ferry street, in the Merrimack river.

Recommended by the special committee on public bath-houses February 3, 1896.

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## AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build the following sewers:

In Pine street from Auburn street northerly to Cedar south back street, and in Cedar south back from Pine to Beech street.

And the expense thereof to be charged to the appropriation for new sewers.

Recommended by committee on sewers and drains May 5, 1896.

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AN ORDER to establish the Grade of Beacon street from Hanover street to Amherst street.

*Ordered*, If the Board of Mayor and Aldermen concur, That the grade of Beacon street from Hanover to Amherst be established as follows:

The corner of Hanover and Beacon on the west

side of Beacon to be elevation..... 250.75

50 ft. north of corner of Hanover to be elevation 254.15

100 ft. north of corner of Hanover to be elevation 256.50

150 ft. north of corner of Hanover to be elevation 258.00

Then the grade to rise 2.16 per 100 feet for 162 feet, making the corner of Amherst and Beacon 261.50.

On the east side the corner of Hanover and Bea-

con..... 252.60

50 ft. north of corner of Hanover and Beacon to

be..... 255.40

100 ft. north of corner of Hanover and Beacon to

be..... 257.50

150 ft. north of corner of Hanover and Beacon to

be..... 258.50

Then the grade to rise 2.16 per 100 feet for 162 feet, making the corner of Amherst and Beacon 262.00 on the east side of Beacon street.

And the same is hereby made the established grade of said street.

Recommended by the committee on streets May 14, 1896.

AN ORDER to establish the Grade of Milton street from  
Hanover to Amherst street.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the grade of Milton street from Hanover to Am-  
herst street shall be as follows:

The west side of Milton and the north side of Hanover  
street shall be 237.00; then the grade to rise 3.04 per 100  
feet for 312 feet to the south side of Amherst street, when  
grade shall be 246.50.

On the east side of Milton street at the line of Hanover  
street the grade to be 239.70; and then rise 2.91 per 100.  
feet for about 312 feet to Amherst street, where grade  
shall be 248.80.

And the same is hereby made the established grade of  
said street.

Recommended by the committee on streets May 14,  
1896.

AN ORDER to establish the Grade of Amherst street from  
Belmont to Beacon street.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the grade of Amherst street from Belmont to Bea-  
con street be established as follows:

The corner of Amherst and Belmont streets on	
·north side of Amherst to be elevation.....	235.41
50 ft. east of corner of Belmont and Amherst	
streets to be.....	237.90
100 ft. east of corner of Belmont and Amherst	
streets to be.....	240.70
150 ft. east of corner of Belmont and Amherst	
streets to be.....	243.70
200 ft. east of corner of Belmont and Amherst .	
streets to be.....	247.00

250 ft. east of corner of Belmont and Amherst streets to be.....	250.60
300 ft. east of corner of Belmont and Amherst streets to be.....	253.85
350 ft. east of corner of Belmont and Amherst streets to be.....	256.88
400 ft. east of corner of Belmont and Amherst streets to be.....	259.80
452 ft. or the corner of Beacon and Amherst to be elevation.....	262.50
On south side the corner of Amherst and Belmont to be elevation.....	234.41
50 ft. west of Belmont street to be elevation....	237.30
100 ft. west of Belmont street to be elevation....	240.30
150 ft. west of Belmont street to be elevation....	243.40
200 on the corner of Milton and Amherst to be elevation.....	247.00
240 on the corner of Milton and Amherst to be elevation.....	248.80
50 ft. east of Milton to be elevation.....	252.30
100 ft. east of Milton to be elevation.....	255.50
150 ft. east of Milton to be elevation.....	258.40
212 ft. or the corner of Beacon and Amherst to be elevation.....	216.50
And the same is made the established grade of said street.	

Recommended by the committee on streets May 14, 1896.

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AN ORDER to establish the Grade of Carpenter Street from Elm to Union street.

*Ordered*, If the Board of Mayor and Aldermen concur, That the grade of Carpenter street from Elm to Union street be established as follows:

The corner of Carpenter and Elm street on north side to be elevation.....	188.00
Then the grade to rise 0.22 per 100 feet for 260 feet, making the corner of Bay street and Carpenter street to be elevation.....	188.57
The east corner of Carpenter and Bay street to be elevation.....	188.68
Then the grade to rise 0.22 per 100 feet for 140 feet, making the elevation.....	189.00
50 ft. east of elevation 189.00 to be elevation....	189.40
100 ft. east of elevation 189.00, or corner of Chestnut and Carpenter street, to be elevation.....	190.00
The east corner of Carpenter and Chestnut to be elevation.....	190.75
50 ft. east of corner of Carpenter and Chestnut to be elevation.....	191.60
100 ft. east of corner of Carpenter and Chestnut to be elevation.....	192.60
150 ft. east of corner of Carpenter and Chestnut to be elevation.....	193.70
185 ft. east of corner of Carpenter and Chestnut to be elevation.....	194.50
220 ft. east of corner of Carpenter and Chestnut on the corner of Adams and Carpenter to be elevation.....	195.45
The east corner of Carpenter and Adams to be elevation.....	196.75
50 ft. east of corner of Carpenter and Adams to be elevation.....	198.25
100 ft. east of corner of Carpenter and Adams to be elevation.....	199.75
150 ft. east of corner of Carpenter and Adams to be elevation.....	201.45
185 ft. east of corner of Carpenter and Adams to be elevation.....	202.63



220 ft. east of corner of Carpenter and Adams on the corner of Ray and Carpenter to be elevation.....	204.00
The east corner of Carpenter and Ray street to be elevation.....	205.00
30 ft. east of corner of Carpenter and Ray street to be elevation.....	206.75
60 ft. east of corner of Carpenter and Ray street to be elevation.....	209.50
85 ft. east of corner of Carpenter and Ray street to be elevation.....	212.40
110 ft. east of corner of Carpenter and Ray street to be elevation.....	215.75
135 ft. east of corner of Carpenter and Ray street to be elevation.....	219.35
160 ft. east of corner of Carpenter and Ray street to be elevation.....	222.55
183 ft. east of corner of Carpenter and Ray street to be elevation.....	225.15
206 ft. east of corner of Carpenter and Ray street on the corner of Union and Carpenter to be elevation.....	226.50
The corner of Carpenter and Elm street on the south side to be elevation.....	185.00
Then the grade rises 0.49 per 100 for 260 ft. to corner Bay and Carpenter, making elevation	186.27
The east corner of Carpenter and Bay street to be elevation.....	186.52
Then the grade to rise 0.49 per 100 for 140 ft., making the elevation.....	187.20
50 ft. east of elevation 187.20 to be elevation....	187.70
100 ft. east of elevation 187.20 on corner Chestnut and Carpenter to be elevation.....	188.50
The east corner of Carpenter and Chestnut street to be elevation.....	189.25



50 ft. east of corner Carpenter and Chestnut street to be elevation.....	190.15
100 ft. east of corner Carpenter and Chestnut street to be elevation.....	191.15
150 ft. east of corner Carpenter and Chestnut street to be elevation.....	192.35
185 ft. east of corner Carpenter and Chestnut street to be elevation.....	193.20
220 ft. east of corner Carpenter and Chestnut street on the corner of Carpenter and Adams to be elevation.....	194.10
The east corner of Carpenter and Adams to be elevation.....	195.50
50 ft. east of corner of Carpenter and Adams to be elevation.....	197.00
100 ft. east of corner of Carpenter and Adams to be elevation.....	198.65
150 ft. east of corner of Carpenter and Adams to be elevation.....	200.35
185 ft. east of corner of Carpenter and Adams to be elevation.....	201.65
220 ft. east of corner of Carpenter and Adams on the corner of Carpenter and Ray street to be elevation.....	203.00
The east corner of Carpenter and Ray streets to be elevation.....	204.00
30 ft. east of corner of Carpenter and Ray streets to be elevation.....	205.65
60 ft. east of corner of Carpenter and Ray streets to be elevation.....	208.25
85 ft. east of corner of Carpenter and Ray streets to be elevation.....	211.00
110 ft. east of corner of Carpenter and Ray streets to be elevation.....	214.00
135 ft. east of corner of Carpenter and Ray streets to be elevation.....	217.25

160 ft. east of corner of Carpenter and Ray streets to be elevation.....	220.30
183 ft. east of corner of Carpenter and Ray streets to be elevation.....	222.50
206 ft. east of corner of Carpenter and Ray streets on the corner of Union and Carpenter to be elevation.....	224.00

And the same is hereby made the established grade of said street.

Recommended by the committee on streets May 14, 1896.

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AN ORDER to Concrete Nutfield Lane from Amherst to Concord street.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to concrete Nutfield Lane from Amherst street to Concord street.

And the expense thereof to be charged to the appropriation for macadamizing.

Recommended by the committee on streets May 14, 1896.

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A RESOLUTION Changing the Name of Certain Streets.

SECTION 1. That the names of certain streets in said city be changed as follows:

That the highway commonly known as Everett Street Passageway, leading from Elm street near Clarke to Everett street, be called Waldo street.

SECT. 2. This ordinance shall take effect upon its passage.

Recommended by the committee on streets May 14, 1896.

AN ORDER to build Spruce Street from Canton to J. Hall Road.

*Ordered,* If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build to grade as established Spruce street from Canton street to the J. Hall road.

And the expense thereof to be charged to the appropriation for new streets.

Recommended by the committee on streets May 26, 1896.

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AN ORDER to build to Grade Shasta Street from Beech to Lincoln Street.

*Ordered,* If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build to grade Shasta street from Beech to Lincoln street.

And the expense thereof to be charged to the appropriation for new streets.

Recommended by the committee on streets May 26, 1896.

---

AN ORDER to build Certain Sewers.

*Ordered,* If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build sewers as follows:

In Cartier east back from present sewer to 250 feet south of Sullivan.

In Dartmouth street from Dickey to Frederick street.

In Conant street from Cartier westerly about 60 feet.

Also a cesspool in Main west back about 50 feet south of Schuyler.

Also two cesspools at the southeast and northeast corner of Myrtle and Hall streets.

And the expense thereof to be charged to the appropriation for new sewers.

Recommended by committee on sewers and drains May 28, 1896.

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#### AN ORDER to build Certain Sewers.

*Ordered,* If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In B street from C street northerly about 180 feet.

In Valley street from Jewett street westerly to Foster avenue.

In Foster avenue from Valley street southerly to Hayward street.

Wilson Hill from Merrimack street northerly to Hanover street east of Beacon street.

In Hanover street to Highland.

And the expense thereof to be charged to the appropriation for new sewers.

Recommended by the committee on sewers and drains June 24, 1896.

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#### AN ORDER to establish the Grade of Essex Street.

*Ordered,* If the Board of Mayor and Aldermen concur, That the grade as shown on plan No. 4103 of the city engineer's department be and is hereby made the established grade of said street as follows:

The northwest corner of Amory and Essex street shall be 163.89; 100 feet south of corner to be 164.70; then the street to rise 0.30 per 100 for 474.49 feet.

On the west side the grade to be 164.05; 100 feet south of corner the grade to be 164.70; then the grade to rise 0.30 per 100 for 474.49 feet; and the same is hereby made the established grade of said street.

Recommended by the committee on streets June 4, 1896.

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'AN ORDER to build Sagamore Street Extension.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build the extension of Sagamore street from Oak street to the Smyth road to the established grade of said street.

And the expense thereof be charged to the appropriation for new streets.

Recommended by the committee on streets July 7, 1896.

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'AN ORDER to establish the Grade of Concord Street.

*Ordered*, If the Board of Mayor and Aldermen concur, That the grade of Concord street from Belmont to Beacon street be established as follows:

The south line of Concord street with the east	
line of Belmont street shall be.....	242.76
At 50 ft. east of Belmont on south side grade	
shall be.....	246.75
100 ft. east of Belmont on south side grade	
shall be.....	250.50
150 ft. east of Belmont on south side grade	
shall be.....	254.00

At 200 ft. east of Belmont on south side grade shall be.....	257.35
250 ft. east of Belmont on south side grade shall be.....	260.45
300 ft. east of Belmont on south side grade shall be.....	263.40
350 ft. east of Belmont on south side grade shall be.....	266.10
400 ft. east of Belmont on south side grade shall be.....	268.40
450 ft. east of Belmont on south side grade shall be.....	270.75

The north side shall be parallel and 1 foot higher than the grade on the south side.

And the same is hereby made the established grade of said street.

Recommended by the committee on streets July 29, 1896.

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#### AN ORDER to Erect and Equip a Horse Drinking-Fountain.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to erect and equip a horse drinking-fountain on Amory street at Hevey east back street, and supply the same in proper working condition, on the above location, at an expense not exceeding one hundred twenty-five dollars.

And the expense thereof be charged to the appropriation for incidental expenses.

Recommended by the committee on streets July 29, 1896.

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#### AN ORDER to build Colby Street.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and

are hereby authorized to build to grade Colby street in West Manchester from West Hancock to Log street.

And the expense thereof be charged to the appropriation for new streets.

Recommended by the committee on streets July 29, 1896.

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#### AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Quincy street from present sewer southerly about 90 feet.

In Beauport east back street from Wayne street southerly about 350 feet.

In Locust street from Christian brook to Sagamore.

In Sagamore from Locust street easterly about 136 feet.

From Sagamore street to Salmon street 120 feet west of the west line of Elm street.

In Liberty east back from Christian brook to 200 feet north of North street.

In Old Bridge street from Belmont street westerly 125 feet.

In Belmont street from Valley to Clay street.

In Green south back from Union to Beech street.

And the expense thereof be charged to the appropriation for new sewers.

Recommended by the committee on sewers August 3, 1896.

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#### AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:



From Laurel to Merrimack street through the land of Mara, Moore, and Muzzey.

In Hall street from Prospect to Harrison street.

In Harrison street from Hall to Belmont street.

In Union street from Appleton street northerly about 150 feet.

In Maple street from Silver to Prescott street.

And the expense thereof be charged to the appropriation for new sewers.

Recommended by the committee on sewers and drains August 31, 1896.

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#### AN ORDER to build to Grade Candia road.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build to grade Candia road from the Mammoth road easterly to Revère avenue.

And the expense thereof be charged to the appropriation for new streets.

Recommended by the committee on streets September 10, 1896.

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#### AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur, That the board of street and park commissioners be and are hereby authorized to build certain sewers as follows:

In Carroll street from Amherst road southerly about 250 feet.

In Lake avenue from Canton street easterly about 300 feet.

In Elm street from Clarke southerly, the city to furnish pipe, Mr. Ray to excavate for the same.



And the expense thereof be charged to the appropriation for new sewers.

Recommended by the committee on sewers and drains  
September 29, 1896.

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AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the board of street and park commissioners be and  
are hereby authorized to build certain sewers as follows:

In Beacon street from Amherst to Concord street.

In Schiller street from Hale to South Main street.

In Sagamore street from Oak to Linden street.

In Walnut east back from Christian brook to Salmon  
street.

In Montgomery east back from Kelley to Amory street.

In Carpenter street from Elm to Union street.

And the expense thereof be charged to the appropriation for new sewers.

Recommended by the committee on sewers and drains  
November 6, 1896.

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AN ORDER to establish the Grade of South Main Street.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the grade of South Main street from Boynton street  
to Bedford town line be established as follows:

The intersection of South Main and Boynton on	
the west side of South Main shall be . . . . .	71.50
At 19 ft. south of Boynton street on west side	
grade shall be . . . . .	71.30
69 ft. south of Boynton street on west side	
grade shall be . . . . .	70.70
119 ft. south of Boynton street on west side	
grade shall be . . . . .	70.10

At 169 ft. south of Boynton street on west side grade shall be.....	69.60
219 ft. south of Boynton street on west side grade shall be.....	69.20
269 ft. south of Boynton street on west side grade shall be.....	69.00
319 ft. south of Boynton street on west side grade shall be.....	69.00
Then the grade to fall 0.115 per 100 for 1,300 feet.	
Then at 1619 ft. from south of Boynton street on west side grade shall be.....	67.50
1669 ft. from south of Boynton street on west side grade shall be.....	67.55
1719 ft. from south of Boynton street on west side grade shall be.....	67.70
1769 ft. from south of Boynton street on west side grade shall be.....	68.00
1819 ft. from south of Boynton street on west side grade shall be.....	68.45
1869 ft. from south of Boynton street on west side grade shall be.....	68.80
1919 ft. from south of Boynton street on west side grade shall be.....	69.00
Then 100 feet level at.....	69.00
Then the grade to rise 0.125 per 100 for 400 ft. grade to be.....	69.50
Then 50 ft. from elevation 69.50 the grade shall be.....	69.50
At 100 ft. from first elevation 69.50 the grade shall be.....	69.30
150 ft. from first elevation 69.50 the grade shall be.....	69.00
Then the grade to fall 0.467 per 100 for 900 ft. grade shall be.....	64.80
At 50 ft. from elevation 64.80 the grade shall be	64.55
100 ft. from elevation 64.80 the grade shall be	64.10

At 150 ft. from elevation 64.80 the grade shall be	63.50
200 ft. from elevation 64.80 the grade shall be	63.00
250 ft. from elevation 64.80 the grade shall be	62.60
300 ft. from elevation 64.80 the grade shall be	62.30

Then the grade to fall 0.1107 per 100 for 271 ft.  
grade shall be..... 62.00

The east side of South Main shall be parallel to the west side of said street, and one foot lower, as shown on plans 993, 994, 995, 996 on file in the city engineer's department.

And the same is hereby made the established grade of said street.

Recommended by committee on streets November 12, 1896.

#### AN ORDER to establish the Grade of Alsace Street.

*Ordered*, If the Board of Mayor and Aldermen concur, That the grade of Alsace street from Kelley street northerly to Bremer be and is hereby made the established grade as follows:

That the grade of Alsace street from Kelley street north-  
Alsace street and thenorth line of Kelley street

shall be..... 142.22

At 50 ft. north of Kelley street grade shall be 143.75

100 ft. north of Kelley street grade shall be... 145.90

150 ft. north of Kelley street grade shall be... 147.75

200 ft. north of Kelley street grade shall be... 149.10

250 ft. north of Kelley street grade shall be... 149.80

300 ft. north of Kelley street grade shall be... 150.00

Then 200 ft. straight grade at 0.20 per 100 ft.,  
making elevation at corner of Bremer and Al-  
sace streets..... 150.50

The east side of the street shall be level with the grade of said west side.

Recommended by committee on streets November 12, 1896.

## AN ORDER to build Cleveland Street.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the board of street and park commissioners be and  
are hereby authorized to build to grade Cleveland street  
from its intersection with Second, thence easterly to the  
Merrimack river.

And the expense thereof to be charged to the appropri-  
ation for new streets.

Recommended by committee on streets November 12,  
1896.

## AN ORDER to establish the Grade of Chestnut Street.

The grade of Chestnut street from Clarke to Trenton  
street be established as follows:

At northwest corner Clarke and Chestnut grade shall be elevation.....	156.50
Then grade to rise 2.75 per 100 ft. for 400 ft. to elevation.....	167.50
Then grade to rise 2.411 per 100 ft. for 170 ft. to elevation.....	171.60
Then grade to rise 2.444 per 100 ft. for 180 ft. to elevation.....	176.00
Then grade to rise 2.912 per 100 ft. for 412 ft. to elevation.....	188.00
Being the southwest corner Chestnut and Carpenter.	
The northwest corner Chestnut and Carpenter streets grade shall be.....	189.50
At 36 ft. from corner Chestnut and Carpenter streets west side grade shall be.....	190.90
86 ft. from corner Chestnut and Carpenter streets west side grade shall be.....	193.55
136 ft. from corner Chestnut and Carpenter streets west side grade shall be.....	197.20
Then grade to rise 8.50 per 100 for 100 ft. grade shall be.....	205.70

At 50 ft. from elevation 205.70 grade shall be...	209.70
100 ft. from elevation 205.70 grade shall be...	213.10
150 ft. from elevation 205.70 grade shall be...	216.10
200 ft. from elevation 205.70 grade shall be...	218.60
247 ft. from elevation 205.70 on the southwest corner Chestnut and Trenton streets the grade to be.....	220.50

The grade of Chestnut street from Clarke to Trenton street on east side shall be as follows:

At the northeast corner Clarke and Chestnut grade shall be.....	156.50
Then grade to rise 2.75 per 100 for 400 ft. to ele- vation.....	167.50
Then grade to rise 2.588 per 100 for 170 ft. to ele- vation.....	171.90
Then grade to rise 2.611 per 100 for 180 ft. to ele- vation.....	176.60
Then grade to rise 2.949 per 100 for 412 ft. to ele- vation.....	188.75
Being the southeast corner of Chestnut and Carpenter streets.	

The northeast corner Chestnut and Carpenter grade shall be.....	190.25
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At 36 ft. from corner Chestnut and Carpenter east side grade shall be.....	191.50
86 ft. from corner Chestnut and Carpenter east side grade shall be.....	194.20
136 ft. from corner Chestnut and Carpenter east side grade shall be.....	197.85
Then grade to rise 8.40 per 100 ft. for 100 ft. to elevation.....	206.25

At 50 ft. from elevation 206.25 grade shall be...	210.20
100 ft. from elevation 206.25 grade shall be...	213.65
150 ft. from elevation 206.25 grade shall be...	216.65
200 ft. from elevation 206.25 grade shall be...	219.10

At 247 ft. from elevation 206.25 on the southeast  
corner Chestnut and Trenton the grade  
shall be..... 221.00

Recommended by committee on streets November 12,  
1896.

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#### AN ORDER to build Chestnut Street.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the board of street and park commissioners be and  
are hereby authorized to build to grade as established by  
the city, Chestnut street from the north line of Clarke  
street, northerly in said Chestnut street to Trenton  
street.

And the expense thereof be charged to the appropria-  
tion for new streets.

Recommended by committee on streets November 12,  
1896.

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#### AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the board of street and park commissioners be and  
are hereby authorized to build certain sewers as follows:

In Walnut east back street from Christian brook sewer  
northerly about 200 feet.

In Linden street from Prospect street to Harrison  
street.

In Harrison street from Linden street to Russell street.

And the expense thereof be charged to the appropria-  
tion for new sewers.

Recommended by the committee on sewers and drains  
November 30, 1896.

AN ORDER to purchase lot of Land on the Bank of the  
Piscataquog River.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the mayor and joint standing committee on sewers  
and drains be and are hereby authorized and instructed  
to purchase from Gustavus F. Swift the lot of land owned  
by him situated on the bank of the Piscataquog river in  
West Manchester, for a sum not exceeding thirty-five  
hundred dollars (\$3,500), the expense of the same to be  
charged to the appropriation for the purchase of land on  
the bank of the Piscataquog river.

Recommended by the committee on sewers and drains  
December 1, 1896.

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AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur,  
That the board of street and park commissioners be and  
are hereby authorized to build certain sewers as follows:

In Dubuque east back street from Kelley street north-  
erly to Coolidge avenue west back street, and thence 200  
feet north of Bremer street in Coolidge avenue west back  
street.

In Milford street from Amherst road westerly about  
300 feet.

In Hanover street from near Beacon street to Highland  
street.

In Valley street from near Belmont to Cypress street.

In Harvard street from Wilson street easterly 200 feet.

And the expense thereof be charged to the appropria-  
tion for new sewers.

Recommended by the committee on sewers and drains  
December 18, 1896.



## SEWER PERMITS GRANTED, 1896.

No. of li- cense.	NAME OF LICENSEE.	Location of sewer.	House No.	Street.	Feet front.	Price.	Amount.	Date.
942	C. H. Carpenter.....	Asb east back..	.....	Maple.....	50	\$0.30	\$15.00	Jan. 14
943	S. C. Forsyth Machine Co.....	Auburn.....	37	Auburn.....	40	.30	12.00	" 31
944	Levi W. Page.....	Spruce.....	386	Spruce.....	50	.30	15.00	Feb. 24
945	C. E. Cox.....	Laurel.....	280	Laurel.....	44	.30	13.20	April 4
946	Mrs. L. M. Goss and Mrs. E. J. Martin	Boylston.....	15	Boylston.....	83	.30	15.00	" 6
947	W. E. Colburn.....	Asbland.....	78	Asbland.....	56	.30	15.00	" 7
948	Nicholas Bolton.....	Green.....	179	Pine.....	60	.30	15.00	" 8
949	Irving L. Campbell.....	Union.....	970	Union.....	50	.30	15.00	" 11
950	Fred G. Stark.....	West Hancock..	241	West Hancock..	50	.30	15.00	" 13
951	Fred G. Stark.....	A.....	93	A.....	50	.30	15.00	" 13
952	John Milligan.....	Laurel.....	449	Laurel.....	50	.30	15.00	" 16
953	George H. Brown.....	Blodget So. back	19	Blodget.....	50	.30	15.00	" 17
954	O. B. Green.....	Ray.....	94	Ray.....	75	.30	15.00	" 17
955	True J. Perry.....	Spruce.....	479	Spruce.....	50	.30	15.00	" 17
956	True J. Perry.....	Spruce.....	493	Spruce.....	50	.30	15.00	" 17
957	C. A. Trefethen.....	Central So. back	242	Lake avenue..	50	.30	15.00	" 18
958	Mrs. S. H. Atwood.....	Ray.....	112	Ray.....	50	.30	15.00	" 20
959	Charles N. Baker.....	Brown avenue..	26	Brown avenue..	50	.30	15.00	" 20
960	J. Frank Seaward.....	Warren.....	295, 297	Pearl.....	45	.30	13.50	" 21
961	Richard Evans.....	East Spruce..	469	East Spruce..	50	.30	15.00	" 21
962	Mrs. Sarah F. Corliss.....	East Spruce..	563	East Spruce..	50	.30	15.00	" 23
963	Mrs. J. S. Bachelder.....	Laurel So. back..	322	Central.....	50	.30	15.00	" 24
964	Mrs. S. T. Worthen.....	Prospect.....	264	Prospect.....	50	.30	15.00	" 24
965	Helen Markey.....	East Spruce.....	502	East Spruce.....	50	.30	15.00	" 27
966	Mrs. Mary O'Connor.....	Central So. back..	341	Central.....	65	.30	15.00	" 27
967	Fred L. Hodgman.....	South Main.....	363	South Main.....	50	.30	15.00	" 27
968	C. H. Hutchinson.....	Elm.....	927	Elm.....	50	.30	15.00	" 30
969	Leah Scaries.....	Appleton.....	927	Union.....	50	.30	15.00	" 30
970	John T. Dyson.....	Douglas.....	307	Douglas.....	50	.30	15.00	May 1
971	Louis Rondoh.....	Kelley.....	525	Dubnque.....	50	.30	15.00	" 4
972	Dr. C. F. Flanders.....	Massabesie.....	108	Massabesie.....	75	.30	15.00	" 5
973	Mrs. Rose Rosner.....	Prince.....	17	Prince.....	60	.30	15.00	" 6
974	Thomas Coyne.....	Kelley.....	524	Cartler.....	50	.30	15.00	" 7



	Walnut east b'k.		578	Beech.....	30	11.00	8	May
975	Mrs. Ananda S. Smith.....	Laurel.....	366	Laurel.....	30	15.00	9	Oct.
976	Mrs. Mary H. Abbott.....	Lake avenue.....	349	Lake avenue.....	30	15.00	12	May
977	F. P. Danforth.....	Rimmon.....	52	Rimmon.....	50	30	11	May
978	Jeremiah Connor.....	McDuffie.....	73, 75	Boydton.....	50	30	11	May
979	Albert H. Huntress.....	McDuffie.....	29	Boydton.....	60	30	11	May
980	Charles F. Barnham.....	Beaufort.....	326	Beaufort.....	50	30	12	May
981	Stephen Nourie.....	Orange.....	327, 328	Orange.....	100	30	12	May
982	Mrs. Georgie D. Parnell.....	Salmon.....	88	Salmon.....	60	30	13	May
983	M. D. Johnson.....	Orange.....	359	Orange.....	50	30	13	May
984	Ellen Leary.....	Orange.....	359	Orange.....	50	30	13	May
985	D. Gagnon.....	Boydton.....	96	Boydton.....	40	30	13	May
986	Mrs. Mary Lane.....	Cedar south b'k.....	413	Cedar.....	50	30	13	May
987	Mr. and Mrs. C. N. Emerson.....	Manchester S. B.....	296	Merrimack.....	50	30	13	May
988	Mrs. C. N. Emerson.....	Manchester S. B.....	299	Merrimack.....	50	30	13	May
989	Mrs. Lucy Gregg.....	Walnut east b'k.....	578	Beech.....	33	30	13	May
990	Thomas Grundy.....	Bridge.....	349, 353	Bridge.....	70	30	13	May
991	Estate of Mrs. L. M. Prince.....	Prince.....	20	Prince.....	55	30	13	May
992	Edward F. Murray.....	Central So. back.....	296	Lake avenue.....	50	30	13	May
993	John Tynan.....	Ash east back.....	225	Ash.....	70	30	13	May
994	John Baptist Daigle.....	Silver.....	262	Silver.....	50	30	13	May
995	Mrs. Robert Hoppe.....	Second.....	180	Second.....	50	30	13	May
996	Mrs. Richard Mullen.....	Cedar south b'k.....	353	Walnut.....	50	30	13	May
997	George L. Read.....	Walnut east b'k.....	345	Dubuque.....	50	30	13	May
998	Mrs. Delta Guilbert.....	Dubuque.....	377	Pearl.....	50	30	13	May
999	Mrs. Elizabeth Mahoney.....	Pearl.....	144	Jewett.....	50	30	13	May
1000	Oliver B. Elliott.....	Jewett.....	165	Laurel.....	50	30	13	May
1001	Clark M. Bailey.....	Laurel So. back.....	140	Laurel.....	50	30	13	May
1002	G. H. and W. H. Hill.....	Jewett.....	927	Jewett.....	50	30	13	May
1003	H. M. Platts.....	Canton.....	279	Cedar.....	50	30	13	May
1004	William Leynoes.....	Silver.....	279	Silver.....	50	30	13	May
1005	Eli Walker.....	Jewett.....	116	Jewett.....	40	30	13	May
1006	N. Bournival.....	Valley.....	677, 679	Valley.....	50	30	13	May
1007	G. M. Foster.....	Cypress.....	7	Answoth avenue.....	30	Free	13	May
1008	William Thompson.....	Union.....	161, 163	Spruce.....	75	30	13	May
1009	E. W. Brigham.....	Mast.....	154, 156	Mast.....	60	30	13	May
1010	Walter H. Wright.....	Belmont.....	154, 156	Belmont.....	50	30	13	May
1011	Thomas Stafford.....	Parker.....	139	Parker.....	44	30	13	May
1012	Philip Vigneault.....	Silver.....	285	Silver.....	62	30	13	May
1013	H. Johnson.....	Union east back.....	316	Walnut.....	50	30	13	May
1014	Stephen Wiggin.....	Merrimack.....	389	Merrimack.....	50	30	13	May
1015	John Porter.....	Valley.....	1003, 1005	Valley.....	50	30	13	May
1016	Mrs. C. W. Lamson.....	Jewett.....	125	Jewett.....	50	30	13	May
1017	Michael Godfrey.....	Sagamore.....	154	Sagamore.....	50	Free	13	May

SEWER PERMITS GRANTED, 1896. — *Continued.*

No. of license.	NAME OF LICENSEE.	Location of sewer.	House No.	Street.	Feet front.	Price.	Amount.	Date.
1018	Mary P. Page .....	Laurel.....	160	Laurel.....	60	\$0.30	\$15.00	June 24
1019	Mrs. Alice Adams .....	A.....	30	A.....	50	.30	15.00	" 24
1020	Joseph Caron .....	Hevey east D'R .....	405	Hevey.....	55	.30	15.00	" 25
1021	Alfred Therrien.....	Hevey east back .....	411	Hevey.....	55	.30	15.00	" 25
1022	T. S. Mitchell.....	Laurel So. back .....	289	Laurel.....	50	.30	15.00	" 25
1023	S. A. Flood.....	Grove.....	808	Grove.....	35	.30	11.70	" 25
1024	Mead, Mason & Co.....	Belmont.....	708	Belmont.....	50	.30	15.00	" 26
1025	Cornelius Donovan.....	Dubaque east B. ....	435	Dubaque.....	53	.30	15.00	" 29
1026	Samuel W. Puige.....	Manchester.....	485	Manchester.....	100	.30	15.00	" 30
1027	Mrs. Mary F. Merkel.....	Conant.....	120	Conant.....	50	.30	15.00	July 1
1028	Moses French.....	Ash east back.....	61	Ash.....	50	.30	15.00	" 1
1029	John F. Connor.....	Sagamore.....	151	Sagamore.....	50	.30	15.00	" 1
1030	Ernest L. Lodge.....	Ash east back.....	243	Ash.....	50	.30	15.00	" 1
1031	Daniel H. Maxfield.....	Union.....	331	Union.....	58	.30	15.00	" 2
1032	Mrs. Benjamin F. Baker.....	Merrimack.....	281	Merrimack.....	50	.30	15.00	" 2
1033	H. Barney.....	Chestnut east B. ....	708	Pine.....	80	.30	15.00	" 7
1035	Cyprien Sonel.....	Hevey east back .....	.....	Hevey.....	53	.30	15.00	" 11
1036	F. L. Noyes.....	Prince.....	9	Prince.....	60	.30	15.00	" 13
1037	Walter Cody.....	Summer.....	219	Massabesic.....	55	.30	15.00	" 13
1038	George L. Kibbee.....	Union east back .....	314	Walnut.....	50	.30	15.00	" 14
1039	Alonzo Day and Mary L. Austin.....	Auburn So. back .....	646	Summer.....	50	.30	15.00	" 14
1040	Edward McDerby.....	Winter.....	151	Winter.....	50	.30	15.00	" 15
1041	Dr. John Ferguson.....	Jewett.....	236	Jewett.....	50	.30	15.00	" 17
1042	John H. Maynard.....	Auburn So. back .....	661	Summer.....	50	.30	15.00	" 18
1043	David J. Conkley.....	Sagamore.....	155	Sagamore.....	50	.30	15.00	" 18
1044	Mrs. P. Nolan.....	Pine.....	187	Pine.....	50	.30	15.00	" 20
1045	B. S. Mahen.....	Belmont.....	630	Belmont.....	38	.30	11.40	" 20
1046	True J. Perry.....	Lake avenue.....	413	Lake avenue.....	50	.30	Free	" 21
1047	Michael Hanberry.....	Spruce So. back.....	427	Cedar.....	50	.30	15.00	" 23
1048	Jonathan Moul.....	Silver.....	216	Silver.....	50	.30	15.00	" 23
1049	Mrs. S. B. Patties.....	Union east back .....	68	Walnut.....	42	.30	12.00	" 24
1050	Farisile Houle.....	Hevey east back .....	421	Hevey.....	50	.30	15.00	" 25
1051	Joshua Page .....	Amberst.....	506	Amberst.....	55	.30	15.00	" 25

1052	A. W. Smith.....	Sagamore.....	102	Sagamore.....	70	30	15.00	July
1053	Mrs. S. S. Porter.....	B.....	79	B... ..	50	30	15.00	"
1054	Simonds & Boynton.....	Spence.....	389, 391	Spence.....	61	30	15.00	"
1055	John J. McTiernan.....	Jewett.....	115	Jewett.....	60	30	15.00	"
1056	Charles H. Colburn.....	Bay east back.....	784	Chestnut.....	50	30	15.00	"
1057	O'Leary Bros.....	Silver.....	243	Pearl.....	50	30	15.00	Aug.
1058	H. I. Faucher.....	Pearl.....	389	Pearl.....	50	30	15.00	"
1059	Henry Burns.....	Amherst.....	424	Amherst.....	50	30	15.00	"
1060	Noe Verrette.....	Silver.....	127	Beech.....	110	30	15.00	"
1061	E. Ahern.....	Laurel S. B.....	213	Silver.....	50	30	15.00	"
1062	D. M. K. Phillips.....	Dartmouth.....	318	Central.....	25	30	7.50	"
1063	New Hampshire Improvement Co.....	Dartmouth.....	69	Dartmouth.....	50	30	15.00	"
1064	New Hampshire Improvement Co.....	Dartmouth.....	85	Dartmouth.....	50	30	15.00	"
1065	New Hampshire Improvement Co.....	Dartmouth.....	99	Dartmouth.....	50	30	15.00	"
1066	New Hampshire Improvement Co.....	Dartmouth.....	115	Dartmouth.....	50	30	15.00	"
1067	C. L. Manter.....	Auburn.....	1039	Auburn.....	50	30	15.00	"
1068	Mary McQuillan.....	Belmont.....	470	Lake avenue.....	107	30	15.00	"
1069	Amede Houle.....	Amory.....	408	Amory.....	50	30	15.00	"
1070	Mrs. N. P. Sturtevant.....	Milford.....	128	Milford.....	27 $\frac{1}{2}$	30	8.25	"
1071	Mrs. L. A. Noyes.....	Boylston.....	3	Prince.....	50	30	15.00	"
1072	Fred H. Boshet.....	Prince.....	36	Prince.....	50	30	15.00	"
1073	Josephine St. Yves.....	Amory.....	412	Cartier.....	50	30	15.00	"
1074	Mrs. Caroline Barker.....	Laurel.....	332	Laurel.....	50	30	15.00	"
1075	Mrs. Josephine St. Yves.....	Silver.....	334	Silver.....	66	30	15.00	"
1076	M. Annie Jacobs.....	Laurel.....	345	Laurel.....	60	30	15.00	"
1077	Edmond Pinard.....	Hevey east back.....	486	Rimmon.....	50	30	15.00	"
1078	George Whitford estate.....	Lake ave. S. B.....	260	East Spruce.....	50	30	15.00	"
1079	H. Cole.....	Union east back.....	883	Union.....	50	30	15.00	"
1080	Abbie Murray.....	Cedar S. B.....	436	Auburn.....	60	30	15.00	"
1081	Clarence A. Stevens.....	Central S. B.....	430	Lake avenue.....	50	30	15.00	Sept.
1082	Mrs. E. C. Stratton.....	Quincy.....	579	Granite.....	50	30	15.00	"
1083	John D. Patterson.....	Concord.....	277	Concord.....	100	30	15.00	"
1084	Benjamin F. Sleeper.....	Jewett.....	192	Jewett.....	50	30	15.00	"
1085	G. S. Hayes.....	Jewett.....	111	Jewett.....	50	30	15.00	"
1086	D. F. Cronin.....	Jewett.....	122	Jewett.....	43	30	15.00	"
1087	Harriet G. Thompson.....	Merrimack S. B.....	251	Merrimack.....	50	30	15.00	"
1088	Mrs. Mary F. Adams.....	Jewett.....	188	Jewett.....	50	30	15.00	"
1089	Michael Mulligan.....	Silver.....	224	Silver.....	50	30	15.00	"
1090	Charlotte Carrier.....	Lake avenue.....	612	Lake avenue.....	70	30	15.00	"
1091	Joseph Delisle.....	Silver.....	984	Silver.....	90	30	15.00	"
1092	Sarah M. Folsom.....	Pine east back.....	29	Liberty.....	60	30	15.00	"
1093	Dr. J. F. Brown.....	Rimmon.....	56	Brook.....	50	30	15.00	"
1094	Joseph Droussseau.....	Rimmon.....	334	Rimmon.....	50	30	15.00	"
1095								

## SEWER PERMITS GRANTED, 1896.—Continued.

No. of li. cense.	NAME OF LICENSEE.	Location of sewer.	House No.	Street.	Feet front.	Price.	Amount.	Date.
1096	Denis O'Connor.....	Kelley.....	540	Rimmon.....	50	\$0.30	\$15.00	Sept. 22
1097	William P. Emerson.....	Liberty E. E.....	77	Liberty.....	60	.30	15.00	" 22
1098	Alvira Towne.....	Lincoln.....	371	Amherst.....	30.67	.30	9.20	" 22
1099	J. L. T. Brown.....	Cedar S. B.....	632	Auburn.....	61	.30	15.00	" 24
1100	John Collins.....	Cedar S. B.....	620	Auburn.....	50	.30	15.00	" 24
1101	Jane V. Corthell.....	Central S. B.....	424	Lake avenue.....	50	.30	15.00	" 24
1102	J. H. Griffin.....	Liberty E. B.....	868	Union.....	60	.30	15.00	" 24
1103	Frederick Smyth.....	North.....	Willows	Salmon.....	50	.30	15.00	" 25
1104	B. S. Maben.....	West Central S. B.....	44	Old Bridge.....	50	.30	15.00	" 25
1105	Deselos Bros.....	South Main.....	70	West Central.....	50	.30	15.00	" 28
1106	Renker & Scheer.....	Bridge.....	346	South Main.....	60	.30	18.00	" 28
1107	B. S. Maben.....	Union.....	378	Bridge.....	49.4	.30	14.82	" 29
1108	Charles McCauley.....	Dartmouth.....	939	Union.....	50	.30	15.00	" 29
1109	Zacharias Stoeppler.....	Laurel.....	74	Dartmouth.....	50	.30	15.00	Oct. 1
1110	Mrs. Sarah M. Baker.....	Auburn S. B.....	349	Laurel.....	50	.30	15.00	" 2
1111	Patrick J. Horn.....	McDuffie.....	282	Summer.....	50	.30	15.00	" 2
1112	Mrs. H. M. Davis.....	McDuffie.....	5	McDuffie.....	80	.30	15.00	" 3
1113	John E. Williamson.....	Amherst road.....	5	Amherst road.....	50	.30	15.00	" 3
1114	P. O. Chapman.....	Merrimack.....	381	Merrimack.....	50	.30	15.00	" 5
1115	Mary J. Murray.....	Auburn S. B.....	78	Merrimack.....	50	.30	15.00	" 5
1116	M. B. McAllester.....	Beech.....	808	Auburn.....	50	.30	15.00	" 6
1117	Mrs. S. Maria Darrah.....	Green.....	517	Beech.....	72	.30	15.00	" 6
1118	Phineas A. Rucker.....	Carroll.....	42	Granite.....	75	.30	15.00	" 6
1119	G. Walter Taylor.....	Prince.....	13	Carroll.....	60	.30	15.00	" 8
1120	Clarence A. Stevens.....	Amherst.....	347	Prince.....	50	.30	15.00	" 8
1121	F. P. Danforth.....	Lake avenue.....	543	Amherst.....	50	.30	15.00	" 9
1122	Miss Hattie J. Parkhurst.....	Carroll.....	114	Lake avenue.....	50	.30	15.00	" 12
1123	G. H. Teeling.....	Sagamore.....	165	Carroll.....	55	.30	15.00	" 13
1124	W. M. Darrah.....	Hanover S. B.....	290	Sagamore.....	50	.30	15.00	" 13
1125	Emil Seidel.....	Montgomery.....	25	Manchesters.....	50	.30	15.00	" 15
1126	A. Z. Jenkins.....	Manchesters.....	2108	Manchesters.....	50	.30	15.00	" 16
1027	C. Augusta Abbott.....	Manchesters.....	453	Manchesters.....	100	.50	15.00	" 17
1028	Reinhart Hecker.....	Douglas.....	191, 193	Manchesters.....	50	.30	15.00	" 20



## SEWER PERMITS GRANTED, 1896.—Continued.

No. of H. cense.	NAME OF LICENSEE.	Location of sewer.	House No.	Street.	Feet Front.	Price.	Amount.	Date.
1172	Dennis J. Clifford.....	Myrtle.....	377	Myrtle.....	50	\$0.30	\$15.00	Dec. 2
1173	Henry Weber.....	Second.....	135	Second.....	50	.30	15.00	" 3
1174	H. Fischer.....	Dickey.....	66	Dartmouth.....	50	.30	15.00	" 3
1175	Mrs. S. C. Brown.....	Lowell.....	.....	Lowell.....	90	.30	15.00	" 4
1176	Kate Maxwell.....	Auburn S. B.....	375	Auburn.....	50	.30	15.00	" 4
1177	James Lightbody.....	Clarke.....	887	Chestnut.....	50	.30	15.00	" 18



## REPORT OF COMMITTEE ON SEWERS AND DRAINS.

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Following is the report of the committee on sewers and drains, prepared by the city engineer as clerk of the committee:

MANCHESTER, N. H., December 31, 1896.

*Gentlemen of the City Councils:*

The committee appointed by your honorable board to act as the joint standing committee on sewers and drains, would submit the following report of the work done by them the present year, and the second in their term of office.

At the opening of the season there were fifty-two orders for sewers voted in but not built. The following list gives the street, location, date of order, and length.

STREET.	LOCATION.	Length in feet.	Date ordered.
Amherst .....	Union to Ashland .....	2,600	May 2, 1893
Amherst road.....	Mast southerly .....	1,230	Apr. 3, 1894
Auburn .....	Canton easterly .....	600	Nov. 9, 1894
Blaine .....	Second to Hiram .....	400	July 5, 1892
Beech.....	Sagamore northerly.....	175	Aug. 6, 1895
Boynton .....	C to McDuffie .....	572	May 27, 1895
Canton .....	Auburn northerly .....	352	Nov. 9, 1894
Concord .....	Hall easterly .....	200	Sept. 6, 1887
Cartier east back ...	Putnam southerly .....	400	Dec. 3, 1895
Cedar .....	Wilson easterly .....	212	Dec. 3, 1895
East of Wilson.....	Cedar to Cedar south back ...	126	Dec. 3, 1895
Cedar south back....	East of Wilson to Hall .....	299	Dec. 3, 1895
Christian brook.....	East of Liberty to Walnut .....	523	June 4, 1895
Dover .....	Clinton northerly .....	160	Sept. 4, 1894
Elm .....	Monroe south back to Thayer.	1,313	June 4, 1895
Elm .....	Shasta to Baker .....	332	May 6, 1890
	Railroad bridge to Elm avenue	1,573	
Front .....	Eddy to north of hotel .....	2,800	Sept. 5, 1893
Grove.....	Present sewer easterly .....	101	Nov. 9, 1894
Hale .....	Schiller southerly .....	450	Nov. 9, 1894
Harvell.....	Hale to South Main .....	700	Nov. 9, 1894
Hayward.....	Jewett easterly .....	300	Sept. 3, 1895
Hevey east back.....	Amory to Columbus avenue ..	800	July 10, 1893
Jewett .....	To Somerville .....	550	July 2, 1895
Jewett .....	To Clay .....	330	Aug. 6, 1895
Lowell.....	Belmont to Beacon .....	500	Aug. 6, 1895
Mast .....	Near Bowman westerly .....	200	June 4, 1895
Mast .....	Extension westerly .....	610	Apr. 3, 1894
Mead .....	Hall to Belmont .....	362	Dec. 3, 1895
Merrimack .....	Belmont to Milton .....	200	Oct. 6, 1891
McDuffie.....	Boynton to Huntress .....	507	May 27, 1895
Myrtle .....	Hall westerly .....	200	May 2, 1893
Porter .....	Amherst northerly .....	250	May 2, 1893
Prince .....	Boynton to Huntress .....	583	May 27, 1895
Prospect.....	Hall easterly .....	100	Sept. 3, 1895
Ray .....	Ray brook northerly .....	325	Dec. 3, 1895
River road.....	Monroe to Clarke .....	684	July 10, 1893
Sagamore .....	Beech to Oak .....	803	May 27, 1895
Second.....	Blaine to Hiram .....	400	July 5, 1892
Second.....	Schiller to Harvell .....	450	Dec. 3, 1895
Somerville .....	Jewett westerly .....	400	July 2, 1895
Silver .....	Union to Lincoln .....	1,790	July 2, 1895
Tilton.....	Milford to Bowman avenue ...	510	June 4, 1895
Union .....	Clarke to Trenton .....	1,700	July 2, 1895
Union .....	Silver to Plummer .....	350	Sept. 3, 1895
Union east back .....	Christian brook northerly .....	500	Aug. 6, 1895
Union east back .....	Christian brook southerly .....	400	Aug. 6, 1896
Valley .....	Elm to Belmont .....	4,900	Nov. 7, 1893
Valley .....	Jewett easterly .....	300	Oct. 1, 1895
West .....	Clinton northerly .....	226	Sept. 4, 1894
Wentworth.....	Schiller southerly .....	400	Nov. 5, 1895
Wilson.....	Valley to Somerville .....	1,800	Aug. 7, 1894
Total .....		29,648	

Equaling 5.615 miles.



Of these the following have been built during the year:

STREET.	LOCATION.	Length in feet.
Amherst road.....	Mast southerly.....	600
Auburn.....	Canton easterly.....	510
Beech.....	Sagamore northerly.....	175
Boynton.....	C to McDuffie.....	572
Canton.....	Auburn northerly.....	352
Cartier east back.....	Putnam southerly.....	344
Cedar.....	Wilson easterly.....	212
East of Wilson.....	Cedar to Cedar south back.....	126
Cedar south back.....	East of Wilson to Hall.....	299
Christian brook.....	East of Liberty to Walnut.....	523
Elm.....	Clarke to Thayer.....	462
Grove.....	Present sewer easterly.....	101
Hevey east back.....	Amory to Columbus avenue.....	404
Jewett.....	To Somerville.....	550
Jewett.....	To Clay.....	330
Mast.....	Near Bowman westerly.....	200
Mast.....	Extension westerly.....	610
Mead.....	Hall to Belmont.....	362
McDuffie.....	Boynton to Huntress.....	507
Porter.....	Amherst northerly.....	250
Prince.....	Boynton to Huntress.....	583
Ray.....	Ray brook northerly.....	325
River road.....	Monroe to Clarke.....	684
Sagamore.....	Beech to Oak.....	803
Second.....	Schiller southerly.....	290
Silver.....	Union to Lincoln.....	1,790
Tilton.....	Milford southerly.....	277
Union east back.....	Christian brook northerly.....	500
Union east back.....	Christian brook southerly.....	350
Valley.....	Wilson to Belmont.....	860
Valley.....	Jewett easterly.....	300
Wilson.....	Valley to Harvard.....	1,143
Total.....		15,394

Leaving 14,254 feet of sewers voted in previous to January 1, 1896.

Special appropriations were made for three of the sewers constructed this year, namely: The extension of the Silver-street main, and for the Christian brook and North Elm-street mains, the former having been built to Union street in 1895. This season the work was taken up at that point, and continued easterly to the manhole in Lincoln street. This sewer, which is of brick, 3 feet 2 inches x 4 feet 9 inches, was of necessity quite deep in certain sections, the average cut being about 20 feet. Much thought has been given to the location of the mains and laterals in this section, with a view to lessening the exca-

vation as much as possible, and still properly draining the entire area. The Silver-street main, besides being laid at considerable depth, was built through a wet, quick-sand bottom for quite a distance, making the excavating and brick-laying more than ordinarily expensive; still, with the laterals which have been called for, and those which will ultimately drain into this sewer, the cost of the whole when completed will be about the average cost per foot for the entire sewerage system.

Already two connecting sewers have been voted in for this section,—one in Union street from Silver southerly, and one in Maple street from Silver to Prescott. These were recommended by your committee after carefully considering the plans and examining the section to be drained.

Christian brook sewer has been completed to Beech east back street. This location in the valley was recommended by the committee in order that the expense of culverts, which would be called for in this section when the streets are built, could be avoided and the sewer made to answer a double purpose, as a culvert for the brook, and a means of drainage for the section bounded by Webster street, Smyth road, Sagamore and Union streets.

Could other sections of the city have been provided for as this one is now, in advance of the street building, by a main sewer, considerable expense could have been saved, as ordinarily the work of building a sewer is much less through new land than through graded streets.

Sagamore-street sewer, which was laid to Beech street in 1895, has been built to Oak street this season, and your committee has recommended an order to continue it to Linden street, as the increased building in this section seemed to warrant the extension.

In Carpenter street a sewer was also recommended, as

it will be needed the coming season in order to drain the land and take care of the residences which are to be built. It will connect with the Elm-street main, which has been completed to this point.

Early in the season there was an urgent demand for a sewer connecting with the Wilson-Hill sewer east of Beacon street and south of Hanover. This sewer was designed to run northerly to Hanover street, thence easterly to Highland street. The ground was thoroughly looked over and soundings made to determine the extent of the ledge. Acting on the report received from the city engineer, the committee decided to give the petitioners leave to withdraw, and recommend a new location beginning at the present sewer in Hanover street near Beacon street, thence easterly in Hanover street to Highland street. This will provide drainage for more lots than the other would, with but little difference in the expense, which in either case would be considerable, owing to the ledge to be gone through.

Owing to there being a ledge in Elm street between Sagamore and Salmon streets, the houses on the west side of the streets have been without suitable drainage. To remedy this your committee, after consulting with the owners and securing a waiver of damages from them, recommended a sewer beginning at the Christian brook sewer, thence along their westerly lot line to Salmon street. From this point a branch was laid to Elm street to connect with cesspools on Elm street, which heretofore could not be built, owing to the lack of suitable facilities for draining them.

Your committee was obliged to act adversely on two petitions for sewers in Amory and Essex streets, for the reason that the Amory-street sewer, with which it was proposed to connect, is not of sufficient depth or capacity to drain the area intended in these petitions. The sewer-

age plan embracing this section calls for the drainage into Kelley street, which cannot be done until the Kelley-street main is continued westerly to a point where these sewers can be connected with it.

Many complaints regarding the condition of the sewer in Pine and Cedar south back streets were received by the committee, together with a petition for a new sewer. The matter was referred to the street and park commissioners, as it was in the nature of repairs, and they have removed the cause by laying a larger sewer at greater depth, which will properly drain the entire section.

At its first meeting your committee recommended an order to build a sewer in Valley street from the Wilson-street sewer, which was completed late last year, easterly to about 200 feet east of Belmont street. This sewer provides means for draining an extensive area, including the large blocks at the corner of Belmont and Valley streets. At the meeting on December 18, the committee recommended the passage of an order extending this sewer to Cypress street. This will afford drainage to a section that has long needed it, particularly that portion on the north side of Valley street between Taylor and Cypress streets, where nearly every lot is occupied..

It has hitherto been impossible to afford relief to this section, on account of the lack of an outlet for the sewer. This lateral will eventually be connected with a sub-main from the Silver-street sewer.

On Beauport street and at the top of the hill near Putnam street, numerous complaints were made regarding the surface water coming from the land on the west down the slope toward Beauport street, to the injury of the lots and the inconvenience of the occupants. Your committee recommended the construction of a sewer in Cartier east back street from Putnam street northerly and southerly, with a sufficient number of cesspools to take care of all surface drainage.

A sewer was recommended in Belmont street from Valley to Clay streets. This section has repeatedly asked for sewerage facilities, which could not be granted, owing to the lack of a main with which to connect. As the Valley-street main has been built to Belmont street, your committee felt justified in recommending the construction of the sewer called for. This will afford relief to the houses in this section, and also take care of the large quantities of surface water.

The sewer in Amherst road, the construction of which was recommended in 1894, has been completed to Carroll street, connecting with the Mast-street sewer, which was extended to Amherst road. A smaller pipe has been carried southerly from Carroll street, to take care of the surface water. The sewer will undoubtedly be extended to Milford street the coming season. This has been a somewhat expensive piece of work, as the Mast-street sewer was nearly all built through solid ledge, while on Amherst road a cut of considerable depth was necessary.

One of the petitions presented your committee called for a sewer through Beacon street from Spruce to Laurel street. Investigation revealed the fact that there was a ledge for nearly the whole distance, and as all the lots could be drained into extensions from other sewers, the request was not granted.

The construction of the Elm-street sewer was recommended by the committee at its January meeting, in compliance with the request of a large number of petitioners. This petition called for the extension of the sewer in River road from Monroe to Clarke street, thence easterly in Clarke street to Elm street, and northerly in Elm street to Rowell street. A special appropriation was made for the construction of this sewer. Rapid progress was made in the work until the sewer had nearly reached Thayer street, where ledge was encountered. This ledge



has continued throughout the entire distance constructed this year, and will undoubtedly be found in greater or less quantities for the remainder of the distance.

It will be a source of considerable expense to the city in future years to provide proper drainage for this section. as the underlying stratum of rock reaches nearly to the surface over the entire area. This section, designed to be one of the handsomest residential portions of the city, is already laid out into lots and partially built upon. Many of the streets have been accepted by the city, and their locations cannot be changed. Sewers will have to be constructed, and a large appropriation should be granted in future years if this section is to be properly taken care of in the matter of sewerage.

For four years or more petitions have been presented to this and former committees, asking for drainage in the rapidly-growing district south of Amory street and west of the Amoskeag Company's line, commonly called the Whittemore section. This section is peculiarly situated, being on an intervalle seventy feet lower than the bluff in McGregorville, too low to be drained toward the east. The only way out of the difficulty was by running a sewer into the Piscataquog river. Here another objection was met in the shape of an ice-cutting privilege owned by the Swift Beef Co., one of the abutters on the river. To overcome this it was necessary to purchase their land; and accordingly an order was passed by the city councils authorizing such action.

A plan has been prepared providing for the drainage of this section and that adjoining owned by the Amoskeag Manufacturing Co., embracing some seventy acres. The owner of the land through which the sewer is to pass has granted a right of way, and permission has been secured from the Boston & Maine Railroad to pass under their tracks. The sewer, which will be of 24-inch pipe, will fol-

low a natural ravine nearly the entire distance, some 2,000 feet. It is designed to run the main to Wayne and Bartlett streets, and from this point build a lateral in Bartlett street, running as far south as Sullivan. Should it be thought desirable, many of the lots along the bluff could also be drained through this system.

Your committee has thoroughly examined the localities where sewers have been petitioned for, in many cases making several inspections before coming to a decision; and in all cases acted in a fair and impartial manner as was deemed for the best interest of the city.

During the year forty-seven orders for sewers have received favorable action; of these nineteen have been built, and two partly. At the present time there are orders for fifty-eight sewers which have passed your honorable board, but which have not been constructed.

The committee has held nine meetings, as follows: January 27, May 28, June 24, August 3, August 31, November 6, November 30, December 18.

The total number of petitions presented to your committee has been forty-seven. Of these, one was referred to the street and park commissioners, as it was a case of repairs; one had been cared for by order of the mayor; nine recommending leave to withdraw; and one recommending the purchase of land.

Nine reports were sent in to the city councils, recommending the passage of orders authorizing the building of thirty-five sewers.

These will be found in the list of orders written by the city engineer's department.

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### Petitions.

The following is a list of the petitions referred to the committee, and the action taken upon them. The date of

the passage of the order to build the same will be found in the engineer's report of orders written for presentation to the city councils.

**VALLEY STREET.** From Wilson easterly, commencing at the present sewer at Wilson street, and thence in an easterly direction about 200 feet east of Belmont in Valley street.

L. B. Bodwell.

Committee voted to prepare an order to build the same, January 27, 1896.

**AMORY STREET.** From Essex to Morgan, and Morgan commencing at terminus of present sewer, and thence in a westerly direction to No. 631 Amory street, thence northerly on Morgan street to No. 48.

Harry H. Piper.

Committee voted to defer action until Kelley-street sewer is built, May 28, 1896.

**ESSEX STREET.** From Amory southerly, commencing at Amory and Essex street, and thence in a southerly direction about 560 feet.

Tobias Steinlehuer.

Committee voted to lay it over, January 27, 1896.

**ELM STREET.** From Thayer to Rowell, commencing at Thayer street on Elm street, and thence in a northerly direction to Rowell street.

C. T. Means.

Committee voted to prepare an order to build the same, January 27, 1896.

**ORANGE STREET.** From Hall to Belmont, commencing at Hall and Orange at the present sewer in Hall street, and thence in an easterly direction to Belmont street in Orange street.

F. F. Cate.

Committee voted to prepare an order for the same, January 27, 1896.



BEACON STREET. From Lake avenue to Spruce, commencing at corner of Lake avenue and Beacon streets, and thence in a southerly direction on Beacon street to Spruce street.

Alnora E. McDole.

Committee voted to report an order for 150 feet north of Spruce street, January 27, 1896.

ACROSS PRIVATE LAND. From Merrimack east of Beacon to Hanover, commencing at the present sewer north of Merrimack street and east of Beacon, and thence in a northerly direction to Hanover street, thence easterly on Hanover street about 500 feet.

Walter R. Cox.

Committee voted to prepare an order to build, provided owners waive all damages and grant right of way, May 28, 1896.

CONANT STREET. From Cartier westerly, commencing at the manhole in Cartier and Conant street, and thence in a westerly direction about 40 feet in Conant street.

Otto C. Merkel.

Committee voted to prepare an order for 60 feet, May 28, 1896.

MAIN WEST BACK STREET. From 50 feet south of Schuyler street, in Main west back street northerly to Schuyler street.

Frank A. Koerner.

Committee voted to prepare an order for the same as asked for, 50 feet south of Schuyler, May 28, 1896.

VALLEY STREET. Commencing at the easterly terminus of the sewer already voted in in Valley street, and thence in an easterly direction to a point near Cypress street.

Mrs. G. C. Noyes.

Committee voted to prepare an order to build the same, December 18, 1896.

CARTIER EAST BACK STREET. Running southerly from Sullivan street 250 feet.

John T. Hannigan.

Committee voted to prepare an order to build the same, May 28, 1896.

LIBERTY EAST BACK STREET. Commencing at the man-hole in Christian brook sewer at Liberty east back street, and thence in a northerly direction in said Liberty east back about 200 feet north of North street.

J. H. Griffin.

Committee voted to prepare an order for the same, August 3, 1896.

DARTMOUTH STREET. From Dickey to Frederick, commencing at Dickey street on Dartmouth, and thence in a southerly direction to Frederick street.

John O. Boody.

Committee voted to prepare an order for the same, May 28, 1896.

B STREET. Commencing at C street and thence in a northerly direction through B street about 150 feet.

Elmer E. Bullard.

Committee voted to prepare an order for the same, January 24, 1896.

MYRTLE AND HALL STREETS. Two cesspools, at northeast and southeast corner of Myrtle and Hall streets, to drain surface water with.

D. B. Sanborn.

Committee voted to prepare an order as asked for May 28, 1896.

MILFORD STREET. From Old Amherst road westerly 300 feet, commencing at the corner of Milford street and the Old Amherst road, and thence in a westerly direction about 300 feet on Milford street.

George G. Hatch.

Committee voted to lay it over, June 24, 1896.

**GARLAND AVENUE.** From Cypress westerly 200 feet, commencing at a Y set in Cypress street sewer near the southerly corner of Kimball Brothers' shoe shop, and thence in a westerly direction to a stake set in the center of Garland avenue, so-called, 200 feet from first stake.

Walter E. Bailey.

Committee voted that leave to withdraw be granted, as no right of way was secured, December 18, 1896.

**GREEN SOUTH BACK.** From Union to Beech, commencing at the present terminus of Green south back street near Union street, and thence in an easterly direction to near Beech street.

Patrick Healey.

Committee voted to prepare an order for the same, August 3, 1896.

**PINE.** From Auburn to Cedar south back, Cedar south back from Pine to Beech, commencing at Pine and Auburn streets, thence northerly to Cedar south back street, and thence in an easterly direction to Beech street in Cedar south back street.

John Morrison.

Committee voted to have this referred to street and park commissioners, as it was in the nature of repairs, May 28, 1896.

**BEAUPORT EAST BACK STREET.** From Wayne street southerly 350 feet, commencing at Wayne and Beaufort east back, and thence in a southerly direction to about 350 feet toward Putnam street in Beaufort east back.

P. Hevey.

Committee voted to prepare an order, August 3, 1896.

**VALLEY AND FOSTER AVENUE.** Commencing at the present sewer in Valley and Jewett streets, thence in a

westerly direction in Valley street to Foster avenue, and thence in a southerly direction to Hayward street.

F. A. Platts.

Committee voted to prepare an order to build the same, June 24, 1896.

MASSABESIC STREET. From Jewett to Mammoth road, commencing at the present sewer in Jewett and Massabesic streets, and thence in an easterly direction to Old Mammoth road in Massabesic street.

Joseph Quirin.

Committee voted to defer action, August 3, 1896.

MONTGOMERY EAST BACK STREET. From Kelley to Amory, commencing at Kelley street and on Montgomery east back street, and thence in a southerly direction in Montgomery east back to Amory street.

Joseph Vincent.

Committee voted to prepare an order to build, November 6, 1896.

ELM WEST BACK. From Christian brook to Salmon, commencing at a stake on the Christian brook sewer line about 120 feet west of the west line of Elm street, and about 55 feet north of the north line of Pennacook, and thence in a northerly direction and parallel to the west line of Elm street, to a stake on the south line of Salmon street about 120 feet west of the west line of Elm street.

William J. Hoyt.

Committee voted to prepare an order to build, August 3, 1896.

OLD BRIDGE STREET. From Belmont westerly 150 feet, commencing at Belmont and Old Bridge street, and thence in a westerly direction 125 to 150 feet.

B. S. Maben.

Committee voted to prepare an order for the same, August 3, 1896.

**BELMONT STREET.** From Valley to Clay, commencing at Valley street on Belmont street, and thence in a southerly direction to Clay street.

L. A. Dodge.

Committee voted to prepare an order to build, August 3, 1896.

**WAYNE AND PUTNAM STREETS.** From Bartlett to Piscataquog river, commencing at Bartlett and Wayne streets, thence southerly in Bartlett street; also from Bartlett and Putnam streets, thence westerly to the Piscataquog river.

Albert Olivier.

Committee voted to prepare an order to build the same, December 18, 1896.

**LINDEN, PROSPECT TO HARRISON, HARRISON, LINDEN TO RUSSELL,** commencing at Prospect and Linden streets, and thence in a northerly direction to Harrison street, thence in a westerly direction to Russell street, according to the city's plan of sewers of said section.

Charles A. Underhill.

Committee voted to prepare an order to build the same, November 30, 1896.

**QUINCY STREET.** From south of Douglas southerly, connecting with the sewer on Douglas street, and thence in a southerly direction to Granite street, a distance of about 90 feet.

E. C. Stratton.

Committee voted to prepare an order for the same, August 3, 1896.

**MAPLE STREET.** From Silver to Prescott, commencing at the Silver-street sewer, corner of Maple, and thence in a northerly direction to Prescott street through Maple street.

William Smith.

Committee voted that an order be prepared to build the same, September 1, 1896.

UNION STREET. From Appleton northerly 150 feet, commencing at the Appleton-street sewer at Union, and thence in a northerly direction about 150 feet in Union street.

Charles McCauley.

Committee voted that an order be prepared to build the same, August 31, 1896.

HALL, PROSPECT TO HARRISON, HARRISON, HALL TO BELMONT. Commencing at the present sewer, corner Hall and Prospect, and thence in a northerly direction to Harrison street, thence easterly in Harrison street to Belmont street, according to the city's plan of sewers.

William E. Pierson.

Committee voted that an order be prepared to build, August 31, 1896.

WILSON HILL. From Merrimack street, and thence in a southerly direction to Laurel street through land of Mara, Moore, and Muzzey.

W. E. Littlefield.

Committee voted that an order be prepared to build, provided that all the owners waive all claims for a right of way, for the sewer, August 31, 1896.

MERRILL STREET. From Jewett easterly 350 feet, commencing at Jewett and Merrill streets, and thence in an easterly direction about 350 feet.

Charles B. Beal.

Committee voted to grant leave to withdraw, December 18, 1896.

SAGAMORE STREET. From Oak to Linden, commencing at Sagamore and Oak streets, and thence in an easterly direction to Linden street, being an extension of Sagamore-street sewer.

Henry L. Kennedy.

Committee voted to recommend an order to build, November 6, 1896.

CARROLL STREET. Commencing at the northerly end of the sewer now in Carroll street, and thence in a northerly direction to the new sewer now in process of construction in Bedford road.

George S. Cauley.

Committee voted that an order be prepared to build, September 29, 1896.

LAKE AVENUE. Commencing at Lake avenue and Canton street on Lake avenue, and thence in an easterly direction in Lake avenue about 300 feet.

Silas W. Call.

Committee voted to prepare an order to build, September 29, 1896.

SCHILLER STREET. From Hale to South Main street, commencing at the present sewer in Schiller street at Hale street, and thence in a westerly direction to South Main street in Schiller street.

Committee voted to recommend an order to build, November 6, 1896.

WALNUT EAST BACK STREET. Commencing at Walnut east back and the Christian brook sewer, and thence in a southerly direction to Salmon street.

Maurice Hoffman.

Committee voted to recommend an order to build, November 6, 1896.

BEACON STREET. From Amherst to Concord, commencing at Amherst street on Beacon street, and thence in a northerly direction to Concord street.

John H. Andrews.

Committee voted to recommend an order to build, November 6, 1896.



WALNUT EAST BACK STREET. Commencing at the Christian brook sewer at Walnut east back street, and thence in a northerly direction about 200 feet in Walnut east back.

C. S. Boynton.

Committee voted to prepare an order for the same, November 30, 1896.

MORRISON STREET. Cesspool in Morrison street near Arlington street.

Clarence E. Rose.

Committee voted to prepare an order to build, November 6, 1896.

BEACON STREET. Commencing at the present sewer in Spruce street at Beacon street, and thence in a northerly direction in Beacon street to Laurel street.

George D. Totman.

Committee voted that leave to withdraw be granted, December 18, 1896.

CARPENTER STREET. Commencing at the proposed sewer in Elm at Carpenter, and thence in an easterly direction in Carpenter street to Union.

C. M. Dodge.

Committee voted to prepare an order to build the same, November 6, 1896.

HARVARD STREET. Beginning at Wilson street, and thence in an easterly direction 250 feet in Harvard street.

R. G. L. Tilton.

Committee voted that an order be prepared to build, December 18, 1896.

DUBUQUE EAST BACK AND COOLIDGE AVENUE WEST BACK. From Kelley to 200 feet north of Bremer, commencing at Kelley and Dubuque east back street, and



thence in a northerly direction in Dubuque east back and Coolidge avenue west back street to a point about 200 feet north of Bremer street.

John Montplaiser.

Committee voted to prepare an order to build, December 18, 1896.

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AN ORDER to purchase Land.

*Ordered*, If the Board of Mayor and Aldermen concur, That the mayor be and is hereby authorized to purchase for and in the name of the city of Manchester, the land situated on the Piscataquog river and owned by the Swift Beef Co., the same being necessary for the use of said city in constructing and maintaining sewers in that section. And the expense thereof be charged to the appropriation for the reserve fund.

Recommended by S. P. Martel, August 29, 1896.

December 1 an order was presented by this committee recommending the purchase of the same.

## SEWERS ORDERED BUILT IN 1896.

STREET.	LOCATION.	Length.	Date ordered.
Auburn south back..	Maple westerly.....	50	Nov. 10
Auburn south back..	Wilson to 150 feet east of Hall.....	665	Jan. 7
B.....	C northerly.....	180	July 14
Beacon.....	Spruce northerly.....	150	Feb. 4
Beacon.....	Amherst to Concord.....	303	Nov. 10
Beaumont east back..	Wayne southerly.....	350	Aug. 4
Belmont.....	Valley to Clay.....	2,100	" 4
Belmont.....	Mead to Bridge.....	442	Jan. 7
Carpenter.....	Elm to Union.....	1,413	Nov. 10
Carroll.....	Amherst road southerly.....	250	Oct. 6
Cartier east back....	Present sewer 250 feet so. of Sullivan	312	June 2
Cedar south back....	Pine to Beech.....	1,069	May 5
Clarke.....	River road to Elm.....	508	Feb. 4
Conant.....	Cartier westerly.....	60	June 2
Dartmouth.....	Dickey to Frederick.....	354	" 2
Elm.....	Clarke southerly.....	182	Oct. 6
Elm.....	Clarke to Rowell.....	2,716	Feb. 4
Elm west back.....	Sagamore to Salmon.....	423	Aug. 4
Foster avenue.....	Valley to Hayward.....	540	July 14
Green south back....	Union to Beech.....	602	Aug. 4
Grove south back....	Union easterly.....	150	Oct. 6
Hall.....	Prospect to Harrison.....	270	Sept. 1
Hanover.....	East of Beacon to Highland.....	500	July 14
Harrison.....	Hall to Belmont.....	365	Sept. 1
Harrison.....	Linden to Russell.....	450	Dec. 1
Hevey east back....	Amory to Wayne.....	550	Jan. 7
Lake avenue.....	Canton easterly.....	300	Oct. 6
Liberty east back....	Christian brook to 200 ft. no. of North	427	Aug. 4
Linden.....	Prospect to Harrison.....	270	Dec. 1
Locust.....	Christian brook to Sagamore.....	198	Aug. 4
Maple.....	Silver to Prescott.....	640	Sept. 1
Montgomery east b'k	Kelley to Amory.....	700	Nov. 10
Old Bridge.....	Belmont westerly.....	125	Aug. 4
Orange.....	Hall to Belmont.....	365	Feb. 4
Pine.....	Auburn to Cedar south back.....	142	May 5
Quincy.....	South of Douglas southerly.....	90	Aug. 4
Sagamore.....	Locust easterly.....	136	" 4
Sagamore.....	Oak to Linden.....	902	Nov. 10
Schiller.....	Hale to South Main.....	850	" 10
Spruce.....	Cedar easterly.....	250	Jan. 7
Union.....	Appleton northerly.....	150	Sept. 1
Valley.....	Wilson easterly.....	200	Feb. 4
Valley.....	Jewett to Foster avenue.....	248	July 14
Walnut east back....	Christian brook to Salmon.....	660	Nov. 10
Walnut east back....	Christian brook northerly.....	200	Dec. 1
Wilson Hill.....	Merrimack to Hanover.....	380	July 14
Wilson Hill.....	Laurel to Merrimack.....	257	Aug. 4
Total.....	.....	22,444	.....

Equaling 4.25 miles.

## SEWERS ORDERED BUT NOT BUILT, TO JANUARY 1, 1897.

STREET.	LOCATION.	Length.	Date ordered.
Amherst.....	Union to Ashland.....	2,600	May 2, 1893
Amherst road.....	South of Carroll southerly.....	630	April 3, 1894
Auburn.....	East of Canton easterly.....	90	Nov. 9, 1894
Auburn south back..	Hall easterly.....	150	Jan. 7, 1896
Beacon.....	Amherst to Concord.....	303	Nov. 10, 1896
Belmont.....	Valley to Clay.....	2,100	Aug. 4, 1896
Belmont.....	Old Bridge to Bridge.....	200	Jan. 7, 1896
Blaine.....	Second to Hiram.....	406	July 5, 1892
Carpenter.....	Elm to Union.....	1,413	Nov. 10, 1896
Cartier east back....	South of Putnam southerly....	56	Dec. 3, 1895
Cartier east back....	North of Sullivan to 250 feet south of Sullivan.....	312	June 2, 1896
Cedar south back....	Beech westerly.....	175	May 5, 1896
Concord.....	Hall easterly.....	200	Sept. 6, 1896
Dover.....	Clinton northerly.....	160	" 4, 1894
Elm.....	Shasta to Baker.....	332	May 6, 1890
Elm.....	Railroad bridge to Elm avenue	1,373	
Elm.....	Munroe south back to Clarke..	851	June 4, 1895
Elm.....	Carpenter to Rowell.....	1,500	Feb. 4, 1896
Foster avenue.....	Valley to Hayward.....	540	July 14, 1896
Front.....	Eddy to north of hotel.....	2,800	Sept. 5, 1893
Hale.....	Schiller southerly.....	450	Nov. 9, 1894
Hall.....	Prospect to Harrison.....	270	Sept. 1, 1896
Hanover.....	East of Beacon to Highland...	500	July 14, 1896
Harrison.....	Hall to Belmont.....	365	Sept. 1, 1896
Harrison.....	Linden to Russell.....	450	Dec. 1, 1896
Harvell.....	Hale to South Main.....	700	Nov. 9, 1894
Hayward.....	Jewett easterly.....	300	Sept. 3, 1895
Hevey east back....	Wayne northerly.....	146	Jan. 7, 1896
Hevey east back....	South of Amory to Columbus avenue.....	396	July 10, 1893
Lake avenue.....	Canton easterly.....	300	Oct. 6, 1896
Linden.....	Prospect to Harrison.....	270	Dec. 1, 1896
Locust *.....	Christian brook to Sagamore..	198	Aug. 4, 1896
Lowell.....	Belmont to Beacon.....	500	" 6, 1895
Maple.....	Silver to Prescott.....	640	Sept. 1, 1896
Merrimack.....	Belmont to Milton.....	200	Oct. 6, 1891
Montgomery east b'k	Kelley to Amory.....	700	Nov. 10, 1896
Myrtle.....	Hall westerly.....	200	May 2, 1893
Orange.....	Hall to Belmont.....	365	Feb. 4, 1896
Prospect.....	Hall easterly.....	100	Sept. 3, 1895
Sagamore *.....	Locust easterly.....	136	Aug. 4, 1896
Sagamore.....	Oak to Linden.....	902	Nov. 10, 1896
Schiller.....	Hale to South Main.....	850	" 10, 1896
Second.....	Blaine to Hiram.....	400	July 5, 1892
Second.....	South of Schiller to Harvell...	160	Dec. 3, 1895
Somerville.....	Jewett westerly.....	400	July 2, 1895
Spruce.....	Canton easterly.....	250	Jan. 7, 1896
Tilton.....	South of Milford to Bowman place.....	233	June 4, 1895
Union.....	Clarke to Trenton.....	1,700	July 2, 1895
Union.....	Silver to Plummer.....	350	Sept. 3, 1895
Union east back....	South of Christian brook south- erly.....	50	Aug. 6, 1895
Valley.....	Elm to Wilson.....	4,040	Nov. 7, 1893
Valley.....	Jewett to Foster avenue.....	248	July 14, 1896
Walnut east back....	Salmon northerly.....	250	Nov. 10, 1896
Walnut east back....	Christian brook northerly.....	200	Dec. 1, 1896
West.....	Clinton northerly.....	226	Sept. 4, 1894
Wentworth.....	Schiller southerly.....	400	" 5, 1895
Wilson.....	Harvard to Somerville.....	657	Aug. 7, 1894
Wilson Hill.....	Merrimack to Hanover.....	380	July 14, 1896
		35,067	

Equaling 6.64 miles.

\* Sewer changed to other location.

This comprises all the work that has come within the province of the committee on sewers and drains, and is respectfully submitted.

C. L. WOLF, *Chairman,*  
GEORGE E. HEATH,  
J. A. LINDQUIST,  
GEORGE H. PHINNEY,  
MICHAEL R. SULLIVAN,  
*Committee on Sewers and Drains.*  
W. H. BENNETT,  
*Clerk of Committee.*

## REPORT OF THE COMMITTEE ON STREETS.

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The annual report of the committee on streets, prepared by the city engineer as clerk of the committee, is herewith presented:

MANCHESTER, N. H., December 30, 1896.

*Gentlemen of the City Councils:*

The committee appointed by your honorable board to act as the joint standing committee on streets, would submit the following report of the work done by them and under their direction the present year:

The committee has held nine meetings, as follows: May 14, May 26, June 4, June 18, July 29, August 19, September 16, November 12, December 4.

Number of petitions received, 48; laid over to 1897, 1; referred to street and park commissioners, 2; referred to board of aldermen, 1; where orders to build streets were recommended, 4; where orders to establish grades were recommended, 9; where orders to concrete were recommended, 1; where orders to change names were recommended, 2; where orders to change names were denied, 2; recommended leave to withdraw, 13; recommended to a hearing, 13; total, 48.

The committee has carefully examined the location in all cases where petitions to establish grade were presented, the situation being explained by the city engineer before orders were prepared for introduction into the council. Among the more important were Lake avenue, from the Mammoth road to Hanover street; South Main street, from A to the Bedford town line; Chestnut street,

from north of Clarke to Trenton; Carpenter street, from Elm to Union; and Essex street, from Amory southerly.

Among the orders presented recommending the building of streets were: For Spruce street from Canton to James Hall road, Cleveland street from Second easterly, and Shasta street from Beech to Lincoln.

An order was also presented to concrete Nutfield Lane from Amherst to Concord.

The location mentioned in the petition for widening Lake avenue east of Belmont was thoroughly examined by your committee, plans drawn, and the situation discussed with every abutter before action was taken. It was finally decided to recommend a hearing.

The streets petitioned for in East Manchester, south of Young street near Jewett, were carefully looked over, as were also the proposed extensions near Belmont street south of Young street. In all these cases the committee recommended a hearing.

One of the most important petitions that has been presented the committee called for the extension of Elm street from Grove to Mitchell. The matter will come up for settlement before the new board, and is a subject that demands careful consideration.

The petition for the extension of Porter street to Concord street was carefully considered, the committee visiting the locality four times. As the expense attendant on carrying out the intent of the petition would be considerable, and hardly warranted, it was recommended that the petitioners be given leave to withdraw.

The usual petition for the extension of Putnam street, that is presented every year, was received. The chairman was instructed to confer with the owners of the land desired for the street, and upon his report the petitioners were given leave to withdraw. Similar action was also taken in reference to several streets near the Hoyt shoe shop, on account of land damages being claimed.

### Petitions.

The following is a list of the petitions referred to the committee, and the action taken upon them:

**ESSEX STREET.** For establishing the grade of highway in said city, beginning at Amory and Essex streets, and thence in a southerly direction about 560 feet, as laid out.

Tobias Steinlehuer and others.

June 4, committee voted to recommend grade as shown by the city engineer's plan No. 4103.

**MORGAN STREET.** For a new highway in said city, beginning at Amory street, and thence in a northerly direction on Morgan street about 600 feet to Kelley street.

Moise Ladouceur and others.

June 4, committee voted to recommend leave to withdraw be given.

**GLENWOOD AVENUE.** For a new highway in said city, beginning at the present terminus of Glenwood avenue as now laid out through Highland park, so-called, and thence in an easterly direction parallel with and 200 feet south of the C. & P. R. R. to Paige street.

Alfred J. Sanborn and others.

May 26, committee voted to recommend leave to withdraw, on account of excessive damages.

**NEW STREET.** For a new highway in said city, beginning at Bald Hill road, and thence northerly to the house owned by Napoleon Daigle, on what was known as the Fogg land.

Napoleon Daigle and others.

May 26, committee voted leave to withdraw, as street was uncalled for, and on account of damages.



**NORTH RIVER ROAD.** For changing the name of the highway in said city, beginning at Salmon street, and running north to the union of River road and Union street, to be called Stark avenue.

John C. Ray and others.

May 14, committee voted to prepare an order for the change as asked for.

**LAKE AVENUE.** For widening the highway in said city, beginning at a stake on the east side of Belmont street, ten feet south of the south line of Lake avenue, and thence in an easterly direction parallel to the south line of Lake avenue to a stake on the west line of Beacon street, ten feet south of the south line of Lake avenue.

Peter McQuillan and others.

May 26, committee voted to recommend that a hearing be granted.

**WALNUT STREET.** For a new highway in said city, beginning at a stake on the center line of Webster and Walnut streets, and thence in a northerly direction to a stake on the south line of the Ray Brook Garden Co., and on the center line of Walnut street extended.

Richard M. Foster and others.

May 14, committee voted to recommend that a hearing be granted.

**ELM EAST BACK STREET.** For concreting the highway in said city, beginning at Amherst street and Elm east back, and thence in a northerly direction to Concord street, meaning to concrete said back street between the above streets.

Edwin B. Weston and others.

May 14, committee voted to recommend an order to concrete the same, as asked for.



WASHINGTON STREET. For changing name of said highway in said city, beginning at Elm street, and thence easterly to Birch street, known as Washington, to be changed to some other name.

F. W. Slack and others.

June 18, committee voted to report inexpedient to legislate.

MILTON, BEACON, AND AMHERST STREETS. For establishing the grade of the highway in said city, beginning at Hanover and Milton streets, thence northerly on Milton street to Amherst street, thence easterly on Amherst street to Beacon street, thence southerly on Beacon street to Hanover street in said city.

Russell O. Burleigh and others.

May 26, committee voted to recommend orders to establish the grade as shown by the plans of the city engineer.

BEDFORD ROAD. For locating the lines of the highway in said city, beginning at the junction of Milford street and Amherst road, and thence in a westerly direction over the Bedford road to the westerly line of the city of Manchester.

John McGinnis and others.

November 12, committee voted to recommend that a hearing be granted.

SECOND STREET. For macadamizing Second street in said city, beginning at Granite street, and thence in a southerly direction to Second-street bridge.

R. P. Grossman and others.

June 4, committee voted to refer to full board of aldermen.

EVERETT STREET PASSAGEWAY. For naming the highway in said city, beginning at Elm street south of Clarke (and commonly known as Everett-street passageway),

and thence in a westerly direction to Everett street, and that the name of the same be known as Waldo street.

A. J. Lane and others.

May 14, committee voted to recommend an order to change the name, as asked for.

CENTRAL STREET. For building the highway from Belmont to Milton street.

N. P. Byrne and others.

June 4, committee voted to recommend that the street and park commissioners repair, and that the grade be established from that.

SPRUCE STREET. For building the highway in said city, beginning at Spruce and Canton streets on Spruce, and thence in an easterly direction to J. Hall road, as laid out by the board of aldermen.

Mead, Mason & Co. and others.

May 26, committee voted to recommend an order to build, as asked for.

NORTH MAIN STREET. For a new sidewalk in said city, beginning at No. 344 North Main street, 50 feet long.

J. O'Connell and others.

June 4, committee voted to recommend leave to withdraw.

WALNUT EAST BACK STREET. For a highway in said city, beginning at a stake at the intersection of the center line of Salmon street with the center line of the back street between Walnut and Beech streets, and thence in a southerly direction to a stake on the north line of the Upton, Harvey & Weston land.

George D. Fitts and others.

May 14, committee voted leave to withdraw, on account of uncalled-for expense.

**SHASTA STREET.** For building to grade the highway in said city, beginning at Beech street and Shasta, and thence in an easterly direction on Shasta street to Lincoln street, as laid out, and to the grade as established October 30, 1895.

George Dennis and others.

May 26, committee voted to recommend an order to build, as asked for.

**WASHINGTON STREET.** Citizens of Manchester and tax-payers on property situated on Washington street, protest against the proposed change of name of the above street.

Littlefield Drug Co. and others.

June 18, committee voted to recommend it inexpedient to legislate.

**DRINKING-FOUNTAIN.** For a spring drinking-fountain in said city, at the corner of Elm street and Bridge street.

John P. Mullen and others.

July 7, committee voted to recommend that owing to the nearness of the sewers, and the poor quality of the water, that it was cheaper and better to have the same supplied with city water.

**CYPRESS STREET.** For a new highway in said city, beginning at a stake on the southerly line of Young street, and in the center of Cypress street, as proposed, and thence in a southerly direction to a stake on the northerly line of Cilley road, and on the center line of Cypress street, as proposed.

J. A. Kimball and others.

June 18, committee voted to recommend that a hearing be granted.

**SOMERVILLE STREET.** For a new highway in said city, beginning at a stake in the center of Somerville and Cypress streets, as shown on plans of said sections on file in

the city engineer's department, and thence in a westerly direction to a stake on the easterly line of Taylor, and in the center line of Somerville street.

H. B. Tobie and others.

June 18, committee voted to recommend that a hearing be granted.

ALSACE STREET. For establishing the grade of highway in said city, beginning at Alsace and Kelley streets, and thence in a northerly direction to Bremer street on Alsace street.

J. H. Mendell and others.

November 12, committee voted to recommend that grade be established according to city engineer's plan.

SOMERVILLE STREET. For a new highway in said city, beginning at a stake in the center of Somerville and Cypress streets, as shown on plans of said section on file in the city engineer's department, and thence in an easterly direction to a stake on the westerly line of Jewett street, and on the center line of Somerville street.

C. W. Danforth and others.

June 18, committee voted to recommend that a hearing be granted.

PUTNAM STREET. For a new highway in said city, beginning at a stake in the center of Putnam and Dubuque streets, being the westerly terminus of Putnam street as laid out June 5, 1888, and thence in a westerly direction to a stake at Putnam and Bartlett streets, being an extension of Putnam street.

Stephen P. Martell and others.

August 19, committee voted to recommend that leave to withdraw be granted, owing to claim for land damages.

CHESTNUT STREET. For establishing the grade of the highway in said city, beginning at Chestnut and Clarke

streets, and thence in a northerly direction on Chestnut street to Trenton street.

Luther M. Pike and others.

November 12, committee voted to recommend that grade be established according to city engineer's plan.

**COLBY STREET.** For building to grade the highway in said city, beginning at West Hancock and Colby streets in West Manchester, and thence in a northerly direction to Log street over Colby street.

Henry Milburn and others.

July 29, committee voted to prepare an order to build the same.

**CONCORD STREET.** For establishing the grade of the highway in said city, beginning at the intersection of Belmont and Concord streets, and thence in an easterly direction to Beacon street on Concord street.

Charles P. Porter and others.

July 29, committee voted to have an order prepared to establish the same, as shown by the city engineer's plan.

**BELMONT STREET.** For a new highway in said city, beginning at a stake at the intersection of the center line of Belmont street with the center line of Pearl street, and thence in a northerly direction to a stake at the intersection of the center line of Belmont street with the center line of Harrison street.

Mary E. Gray and others.

July 29, committee voted to recommend that a hearing be granted.

**NORTH STREET.** For a new highway in said city, beginning at a stake in the center of Union and North streets, and thence in an easterly direction to a stake at the center of Walnut and North streets, according to the city's plans of streets, being an extension of North street.

George L. Read and others.

July 29, committee voted to recommend that a hearing be granted.

**HOLLY AVENUE.** For a new highway in said city, beginning at a stake 210 feet east of Taylor street and about 340 feet north of Vinton street, and thence in a westerly direction and parallel to Vinton street about 350 feet west of Taylor street, to a stake set in the ground, and known as Holly avenue.

R. P. Stevens and others.

November 12, committee voted to recommend that a hearing be granted.

**DUBUQUE STREET.** For a new highway in said city, beginning at a stone bound in the center of Kelley and Dubuque street, and thence in a northerly direction in Dubuque street to Mason street, according to the Amoskeag Manufacturing Co.'s plan.

Lawrence Rooney and others.

August 19, committee voted to recommend that a hearing be granted.

**BEAUPORT EAST BACK STREET.** For establishing the grade of the highway in said city, beginning at Sullivan and Beauport east back streets, and thence in a southerly direction to Schuyler street through Beauport east back.

John H. McCabe and others.

November 12, committee voted to recommend that leave to withdraw be granted.

**BEAUPORT EAST BACK STREET.** For a highway in said city, beginning at a stake at the intersection of the south line of Sullivan street and the center of Beauport east back street, and thence in a southerly direction to a stake in the north line of Schuyler and in the center line of Beauport east back street, said streets being the same as shown on the Amoskeag Manufacturing Co.'s plan of lots.

John H. McCabe and others.

November 12, committee voted to recommend that leave to withdraw be granted.

HANOVER STREET AND LAKE AVENUE. For establishing the grade of the highway in said city, beginning at James Hall road on Lake avenue, and thence easterly to Hanover street; also from James Hall road on Hanover street, and thence in an easterly direction to Lake avenue, meaning to establish the grade on Hanover and Lake avenue from James Hall road to where they intersect each other.

Charles Williams and others.

September 16, committee voted to recommend that grade be established according to city engineer's plans.

COLUMBUS STREET. For building a new highway in said city, beginning at the intersection of Amory and Columbus streets, and thence in a southerly direction about (400) four hundred feet.

V. Bourque and others.

November 12, committee voted to take no action, as street was not laid out.

CLEVELAND STREET. For a building to grade the highway in said city, beginning at Second and Cleveland streets, and through Cleveland street, and thence in an easterly direction to Merrimack river, known as Cleveland street.

Thomas T. Milnes and others.

November 12, committee voted to recommend the passage of an order to build the same.

ELM STREET. For widening the highway and building a retaining wall in said city, beginning at the south line of Valley street on the west side of Elm street, and thence in a southerly direction to the bridge over the Manchester & Lawrence Railroad tracks.

George H. Dunbar and others.

November 12, committee voted to recommend that the board of street and park commissioners make a report to the city government as to the cost of the same.



ELM STREET. For a new highway in said city, beginning at a stake on the north line of land of H. D. Lord, and in the center of Elm street, being the terminus of Elm street as laid out south of Baker street, and thence in a southerly direction to a stone bound on the center line of Elm street, produced, and the north line of Mitchell street, proposed.

James H. McKenzie and others.

November 12, committee voted to recommend that a hearing be granted.

SOUTH MAIN STREET. For establishing the grade of the highway beginning at Boynton street, and thence in a southerly direction to the Bedford town line.

November 12, committee voted to recommend that grade be established according to city engineer's plan.

COLUMBUS STREET. For a new highway in said city, beginning at a stake at the intersection of Amory and Columbus streets, and thence in a southerly direction about 400 feet to a stake in said street, as shown on plan of said section.

P. Hevey and others.

December 4, committee voted to recommend that it be referred to the next city council.

PORTER STREET. For a new highway in said city, beginning at a stake on the east side of Porter street between Concord and Amherst streets; said stake is about six feet southerly of the northwest corner of land of J. N. Lacourse, and thence in an easterly direction and parallel to Amherst street, to the lot line of Curtis Holt, to a stake on said line in said city.

W. B. Sanford and others.

June 4, committee voted to recommend that leave to withdraw be granted.



PORTER STREET. For a new highway, beginning at a stake in the center of Porter street opposite the land of S. S. Piper, and thence in an easterly direction to a stake on the west line of Ashland street.

S. S. Piper and others.

June 4, committee voted to recommend that leave to withdraw be granted.

MONTGOMERY STREET. For establishing the grade and lay-out of the highway in said city, beginning at a stake in the center of Montgomery and Amory streets, and thence in a northerly direction to Kelley and Montgomery streets, to a stake at the intersection of said streets, as shown by the Amoskeag Manufacturing Co.'s plan of said land.

D. C. Beauchene and others.

July 18, committee voted to recommend an order to establish the grade according to city engineer's plan.

CARPENTER STREET. For establishing grade in said city, beginning at Elm and Carpenter streets in said city, and thence in an easterly direction on Carpenter street to Union street.

C. M. Dodge and others.

May 14, committee voted to recommend an order to establish the grade as shown by city engineer's plan.

This comprises all the work that has come within the province of the committee on streets, and is respectfully submitted.

GEORGE W. REED, *Chairman*,  
JOSEPH O. TREMBLAY,  
GEORGE E. HEATH,  
EDWARD F. SCHEER,  
CHARLES HAZEN,

*Committee on Streets.*

W. H. BENNETT,

*Clerk of Committee.*

This department has been particularly fortunate this year in being allowed to retain the entire office force up to the end of the year. During the busy season, when calls for lines and grades by the city and by private individuals are numerous, little time is found to make outside surveys. As has been said many times in previous reports, this is an important item, and the sooner surveys are made of the outlying roads, the more accurate will be the information obtained. This fall, after the pressure of the regular work abated somewhat, a party was put into the field and kept there as long as suitable weather lasted. The result will be spoken of at greater length hereafter.

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### Streets.

Nothing has been done this year toward following out the suggestions made in the last report regarding the laying out of new streets.

This is a matter not to be lightly passed by. Perhaps the pernicious effects of the system in vogue are not apparent now, and may not be for a number of years; yet the time will surely come when the city will realize the mistake it made in not compelling land owners to conform to a recognized plan in laying out their lots. Other cities have seen the evil effects of the lack of a systematic plan and have taken steps to remedy it. Manchester seems content to drift along without making any attempt to change the existing conditions.

The city is growing, and growing rapidly. New streets are projected on all sides, laid out without regard to width, direction, or distance, as compared to those already built; in fact, jumbled together in a heterogeneous mass that in time will resemble a section of Boston's time-honored thoroughfares.

Before it is too late, something ought to be done looking toward uniformity, either by preparing a plan locating the position of streets to be laid out, or by an ordinance defining the width, direction, and distance apart, and providing for the introduction of back streets in each block.

If this is not done, Manchester will soon lose her well-laid-out appearance, that has been a source of so much pride to her citizens in the past, and a subject for remark by visitors.

Another point that is lost sight of in locating streets, is the facility with which they can be drained. Due care should be exercised in avoiding ledges when it can be done, and the natural lay of the ground taken advantage of as far as possible without conflicting with the regularity of the streets.

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### Granite Street Bridge.

With the advent of the spring freshet came the loss of the old wooden bridge that for forty-five years had spanned the Merrimack at Granite street. Then came the absolutely imperative demand for a new bridge. The previous year this department had made surveys and soundings, and taken levels in this vicinity, in anticipation of the probable action of the city regarding a new bridge. This part of the work of course did not have to be gone over again.

It was thought by the street and park commissioners that the old piers could be utilized as the foundation of a new structure to be built of wood, and accordingly measurements were made to determine their exact location, and also to see what would have to be done provided it was decided to build a wider bridge. Plans were also made for a wooden bridge, which were submitted to the board.

When it was decided to build a steel bridge, a thorough examination of the piers was made, and a report submitted that they would have to be rebuilt from the water line, if not entirely. Subsequent investigations revealed the fact that the foundations rested on wooden supports, and it was decided to rebuild them entirely.

Considerable time was devoted to preparing the necessary data, and in making sketches to be submitted to the various bridge firms.

Frequent visits were also made to the scene in company with agents of the different companies, and altogether considerable time was spent in preliminary work.

When the contract for building the piers was let, sketches were made for the contractor to cut the stone by, and lines and grades given on the ground for the location of the piers. During the progress of both the sub and super structure daily visits were made to the scene, and the services of two men required almost constantly in furnishing points, measuring stone work, and attending to the numerous details of construction.

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### Road Surveys.

In response to numerous requests for establishing the lines of the Borough road, or Lake Shore road as it is now called, a survey was made from the Candia road to the Island Pond road, and whatever points and bounds could be found were located. During the winter a plan will be made, and the original lines shown as nearly as possible. In some places changes will be suggested in the lines that will improve the road to a considerable extent without damage to the abutters.

The survey was also continued up the Island Pond road to the Mammoth road, connecting with a previous survey of this latter road. This will also be plotted during the winter, and the lines established.

It was the intention, had the weather permitted, to have extended the survey of the Mammoth road southerly to the town line, and also to have made surveys of the Derry road and several of the smaller roads in the vicinity. This will cover the southeast section of the city, and will allow of the correct lines being given to property owners when called for. It is hoped that this work may be pushed as rapidly as possible next season.

A survey is also needed of the Nutt road and the River road at the south end, and of the Bald Hill road at the north end.

In Amoskeag considerable time was devoted to a survey of the Ryderville road, for the purpose of determining the lines. In this connection partial surveys had to be made of many of the abutting lots. A plan was prepared, and the lines established and marked on the ground.

Nothing was done toward finishing the survey of the Dunbarton road begun last year, owing to more pressing demands in other directions. It will be necessary to complete the survey to the town line before the street lines can be properly established.

A survey was made of the Mast road from Mast street to the Goffstown line, and a line established according to the most authentic data obtainable. Considerable dissatisfaction was expressed by the property owners along the southerly part of the road, regarding the lines as marked. The lines given them by private engineers when their property was purchased appear to have been on a fifty-foot layout instead of sixty-six feet, as the old records call for. No settlement has been reached as yet, and the probable outcome is a matter of doubt. It may be necessary to lay out the road fifty feet wide to amicably adjust matters.

Surveys have also been made of the Old Mast road westerly to the Goffstown line, and of the Bedford road

from Milford street to the Bedford line, the latter being necessary in order to mark the line for the extension of the street railway.

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### Mammoth Road.

When the appropriations for the year were made up, a sum was set aside for grading Mammoth road from Old Bridge street northerly. This improvement has long been desired, as the roadway in places was not wide enough for two teams to pass. The bushes have been cut, and the banks of gravel removed for a distance of about 3,000 feet. The roadway now averages about 35 feet wide, and is built in a first-class manner. Minor improvements were also made on Old Bridge street at its junction with Mammoth road.

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### Street Railway.

Considerable time has been devoted to preparations for the extension of the street railway. On the Bedford road, as before mentioned, a survey was made and levels taken. Levels were also taken on Milford street from Main street to the Bedford road. On Beech street a survey was made from Lake avenue to Salmon street. On Baker street and Calef road levels were taken as far as the Pine Grove cemetery.

The same method was pursued in giving the lines and grade as was followed last year. Spikes were driven flush with the ground every fifty feet on a line parallel to the track, and at a certain distance away. Levels were afterwards taken on the spikes, and the cuts or fills therefrom given to the contractor. This has been found to work satisfactorily, and can be done at considerable less expense than by the former method.



### Elm Street Extension.

One of the matters that will be brought before the incoming board is that of extending Elm street to the Pine Grove cemetery, a petition to that effect having been referred to them by the present board.

This is an important subject, and one that means considerable for the development of the city in that direction.

The proposed extension would strike the cemetery at about the center of its north line, where would, undoubtedly, be made the principal entrance.

The distance covered by the petition is about 2,500 feet, a portion of the way through a ledge of suitable stone for road-making purposes. Should it be decided to grant the petition and construct the road, it would be good policy to purchase a stone-crusher to be located there. No doubt arrangements might be made with the street-railway company whereby their track could be utilized for conveying the crushed stone to various portions of the city, at greatly reduced cost for teaming.

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### Sewers.

A large amount of sewer work has been done this year, the season beginning early and continuing till late in the fall. As was the case last year, several of the sewers have been built through ledge, making the work slow and expensive. This has been the case in Jewett street, where some 800 feet was built, the rock cut being from 4 to 10 feet; in Auburn street from Canton easterly 510 feet, the cut averaging 6 feet; in Mast street 610 feet, varying from 6 to 10 feet; and in Elm street from Thayer to Carpenter, 754 feet, from 4 to 10 feet cut. The work has progressed as rapidly as possible, and the showing made was remarkably good considering the difficulties encountered.

Four of the principal mains projected last year have been completed. Christian brook sewer has been carried to Beech east back street, a distance of 1,010 feet, this season, practically completing it for the present. This sewer will drain the territory north of Sagamore street and east to the Smyth road, and will also take care of the waters of Christian brook, doing away with the necessity of building culverts where the streets cross.

The Silver-street main has been built to Lincoln street, a distance of 1,788 feet, practically furnishing means of draining the entire southern section. Owing to the sandy soil in this section, future sewer extensions will not entail a very heavy outlay.

The Mast-street main has been completed to Amherst road, and through Amherst road to a short distance south of Carroll street. This sewer is designed to drain the section around Milford-street extension, and will undoubtedly be completed the coming season.

The Jewett-street main has been extended to Clay street, a distance of 877 feet. As has been stated, this sewer was laid through a ledge of considerable extent, but of such a nature that it was easily removed by blasting, and the sewer built at an unusually low cost per foot.

The Valley-street sewer, beginning at Wilson street, has been carried some 200 feet east of Belmont street. This is an important main, and its completion at an early date is a necessity, as it will afford means for draining a large section heretofore without sewerage of any kind.

The principal main constructed the past year has been that in River road, Clarke and Elm streets. The work on this sewer progressed rapidly until Thayer street was reached, when, as before mentioned, ledge was struck, and the progress necessarily retarded. It is the intention to continue the work as long as the weather is suitable, as the earth excavation is completed to Trenton street, and blasting can be done to good advantage in the



winter. This main will eventually extend to Rowell street. There has already been built 2,411 feet, leaving 1,500 feet to be built.

In rebuilding the piers at Granite bridge it was necessary to relay the sewer outlets at each side of the river. This was done by constructing cylinders of steel firmly riveted together and imbedded in the masonry of the pier about low water mark, bringing them up to meet the sewers at the proper points.

The section drained by the Amherst-street sewer is badly in need of improved facilities. The Amherst-street main is not large enough, and the laterals are overcrowding it more each year. The necessity of relaying it has been frequently mentioned, and it is apparent that something must be done before the sanitary condition of that section can be much improved.

The usual amount of sub-mains and laterals have been constructed, and everything considered, the showing made has been excellent.

The average cost per foot in District No. 2 has been \$3.12; in District No. 7, \$1.59; in District No. 10, \$1.70.

In the 26,530 feet of sewers there were built 89 man-holes and 16 lampholes; 106 cesspool connections were put in, besides the Y branches for 756 house connections.

The sewer tables on preceding pages, and the report of the committee on sewers and drains will give an account of the work done more in detail, as will also the report of the street and park commissioners regarding the number of cesspools built and repaired, their cost, and the cost of repairs on sewers.

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### Parks.

Little work has been done by this department in the parks the past year. In Derryfield park lines and grades were given for building the main avenue north of the old road.

In Stark park lines and grades were given for the curbing around the burial lot, and the locations of the clumps of trees shown on the proposed plan marked on the ground.

### Cemeteries.

The maps showing the lots in the Valley cemetery have been completed, and the lots renumbered according to the ideas of the sub-committee. Blue prints have been made for the superintendent and for the treasurer. As far as was possible to, the names of the present lot owners have been ascertained and marked on the plans. The renumbering was necessary in order to avoid the confusion now resulting from the fact that there are three sets of numbers in use in different portions of the cemetery.

In Pine Grove cemetery lots have been laid out in the new section east of Pine Lawn. The rangeways in Manesque field have been continued, to conform to the new plan. Grade has been established for a portion of Chapel Lawn, and several new lots laid out thereon.

A survey has been made of the Merrill yard, showing the lots and walks as far as possible. Owing to pressure of other work the plan has not been completed. Some difficulty will be experienced in properly locating the lots, as the original bounds have become obliterated, though a fairly good layout can be obtained.

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### Committee Work.

The city engineer, as clerk of the committee on streets and on sewers and drains, has attended each meeting, keeping a complete record of the proceedings, which are on file in this office.

In addition, meetings of the city government, committees on Valley cemetery, Pine Grove cemetery, city farm, lands and buildings, claims, commons and parks, the street and park commissioners, and the board of aldermen have been attended.

Besides the work before enumerated, many questions have been answered from engineers, boards of trade, and others in various cities throughout this country and Canada.

I would respectfully tender my acknowledgments to his Honor the Mayor, and the various committees of the city council for the support which they have given.

I also wish to acknowledge the courtesies shown by the various heads of departments, and the co-operation of the assistants of this department.

Respectfully submitted.

WINFRED H. BENNETT,

*City Engineer.*

JANUARY 1, 1897.



REPORT  
OF THE  
SUPERINTENDENT OF SCHOOLS.



# REPORT

OF THE

## SUPERINTENDENT OF SCHOOLS.

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*To the School Board and by said Board to the City Councils:*

The following is presented as the semi-centennial report of the public schools of the city of Manchester, and the final report of the superintendent for the year 1896.

### SCHOOLHOUSES.

The new Wilson school, nearly completed at the close of last year, was first occupied at the opening of the spring term in April. It has eight school rooms, five of them being occupied at the outset; and at the opening of the fall term another school was opened in this house, leaving only two vacant rooms to meet the needs of the rapidly-growing school population in that section of the city.

During the current year a new house, known as the Parker school, has been erected upon the South Main-street lot in place of the poorly-constructed two-room wooden house so long in service there. The Parker school has four completed school rooms, and provisions for four others. It is constructed upon the general plan of the new Wilson school, which is proving quite satisfactory; and similar gratification is expected from use of the new Parker house, now occupied but a few weeks.

The new high-school structure is rapidly nearing completion, and it should be ready for occupancy by the first of April, when the Straw schoolhouse, now occupied by the High school, will be very urgently needed for the relief of various lower grades in the Spring-street, Lowell-street, and Ash-street houses. The Straw school will also house the two primary schools occupying the Blodget-street house, and the city will thus be enabled to dispose of the latter house, or use it for other than school purposes.

The new high-school house will grandly meet long-suffering necessities, and for many years satisfy the rapidly-growing demands for such a structure. The extended use that will at once need to be made of the new high school house will be so apparent that the cost of its immediate completion will be fully justified, and the building therefore become the pride of the city; so, also, because it will be the best high-school building in the state, and compare favorably with several new high school houses recently constructed in various New England cities at greater individual expense.

From lists in the subjoined sketch, it will be apparent that the city now has twenty-four schoolhouses in use. The school board heartily thanks the city government for the efficient way in which it has provided for the long and greatly needed relief of several badly overcrowded schools, in different parts of the city, by the completion this year of the new Wilson school and the erection of the Parker school in West Manchester; also for the evident promise of the early completion of a fine high-school building.

The next new schoolhouse that will be needed for the use of our public schools, and it cannot be provided too soon, should be so located that it will furnish relief for the very badly overcrowded rooms in the Training school,



and also afford better accommodations for the entire Franklin-street school. The board asks the city government early to provide therefor, and to consider whether there is any better way to meet the needs in question than to erect a new and commodious schoolhouse to take the place of the one now on Franklin street. Such a house would also best furnish partial relief for the overcrowded rooms in the Spring-street house, the Straw schoolhouse supplying the rest of the relief needed for the Spring-street schools.

#### HISTORICAL.

It is deemed proper that the school committee's report for the semi-centennial year of our city's life should contain at least a supplement to the history of our schools prepared by William Little, Esq., and issued in the school report for 1876, the hundredth anniversary of our nation's birth.

I therefore add the following in regard to the city's schoolhouses for the last twenty years.

In 1876, the following schoolhouses were in use: The Intermediate, at corner of Manchester and Chestnut streets, torn down in 1884; Bakersville, sold in 1884; the high school, at corner of Beech and Lowell streets, torn down in 1895; Center-street, later known as School-street, abandoned in 1891, and sold in 1896; Hallsville, abandoned in 1892, and changed into a hose house in 1896; Wilson-Hill, at corner of Manchester and Wilson streets, sold in 1896; South Main-street, sold in 1896; and, in addition to the foregoing seven old houses, the following fifteen,—which are still in use,—Training school, Lowell-street, Spring-street, Franklin-street, Blodget-street, North Main-street, Lincoln-street, Ash-street, Stark, Amoskeag, Goffe's Falls, Harvey, Youngsville, Webster's Mills, and Mosquito Pond.

Of the foregoing twenty-two schoolhouses, the seven first-named, containing twenty-three school rooms, have ceased to be used for school purposes; and within the last score of years, to fill the places of the seven old houses and provide for additional needs, the nine following schoolhouses have been erected: Webster, 1882; Bakersville,\* 1884; Varney, 1891; Hallsville, 1892; Pearl-street, 1894; Rimmon, 1894; Straw, 1895; Wilson, 1896; Parker, 1896. Additions have also been made to the following schoolhouses: North Main-street; Goffe's Falls; and Training school, on Merrimack street. By these structures and additions, sixty-three school rooms have been supplied in place of the twenty-three discontinued; or, by the changes made in schoolhouses during the last twenty years, there has resulted a gain of forty school rooms and great improvement in the sanitary and general character of the city's schoolhouses as a whole.

During these twenty years there has been no time when there have not been overcrowded school rooms, as now, notwithstanding the increase of forty school rooms; for the increase in the number of pupils has made the demand for more school rooms almost incessant.

#### REPAIRS OF SCHOOLHOUSES.

The city government has this year recognized more fully than usual the competency of the School Board to determine the amount of appropriations necessary for the proper care and conduct of the schools. It wisely granted the requests of the Board in general; and for the repairs of schoolhouses allowed an appropriation of \$6,000. The following account of its expenditure will satisfy all concerned as to the good and necessary uses to which the money has been put.

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\* Six rooms, the assembly hall being divided for two.

The training-school building and the schoolhouse at Mosquito Pond, which were each in quite dilapidated condition, have both been so extensively repaired that they may be said practically to have been renewed. The roof of the training-school building had been so many times repaired, and yet proved leaky, it was deemed necessary to give it extensive repairs. The leaky roof had also so injured the walls of the school rooms that they all had to be relathed, as well as replastered. The woodwork of this house, outside and inside, was repainted; and the heating and lighting appliances repaired.

The Mosquito Pond house was reshingled and replastered; was provided with a new floor, and with slate for blackboards. It also had its old-fashioned pupils' desks cut in two, and made into modern single desks.

The Spring-street schoolhouse demanded considerable outlay. The roof had to be extensively repaired; the chimney, also. Slates, for blackboards, were put in all but one of the school rooms. The house was also repainted.

At the Franklin-street school the heating apparatus was repaired, the basement ceiling renewed, the sash of several windows put in proper condition, and other minor repairs made.

The chimney of the Main-street school was partially rebuilt, the walls and ceilings of the several school rooms re-dressed, and a new flagpole provided. The Lowell-street building, another of the older houses, had its walls also re-dressed, and the inside woodwork painted.

At the Ash-street house more new slate, for blackboards, was provided; and highly desirable changes in the curbing of the yard were made, a part of the expense being defrayed by the committee on lands and buildings.

The roof of the Lincoln school is a bad one. It was repaired to prevent its leakage from again injuring the

house. The basement floor was renewed, and minor repairs were made.

The Varney schoolhouse required extensive repairs upon its roof and tower, caused by shrinkage of timbers of which the trusses were made. A large supply closet has been built, many new outside windows have been provided, and the concrete walks repaired.

At the Bakersville school, the principal's room has been rearranged, the interior woodwork all varnished, concrete walks repaired, and a rear fence built on top of the retaining wall constructed in the summer by the committee on lands and buildings.

The Webster-street school had its heating apparatus rearranged, to remove the chill from the girls' basement. A new flagpole was also provided.

When the Hallsville school was built, there was no sewer near it. Connection was made with the sewer put in last summer, though at considerable expense.

At Goffe's Falls, new slate, for blackboards, was placed in the older school room there. A new fence about the lot was built by the committee on lands and buildings.

In the Amoskeag, Webster's Mills, and Harvey District schools several minor repairs were made.

Among the more important repairs that ought to be made this year, is the rearrangement of the heating appliances at the Lincoln and Ash-street schools, in order that proper ventilation may be secured. There is no adequate provision for ventilation in either of those large and important schools, and pupils suffer greatly from lack of it in cold weather. The ceiling of the assembly hall in the Lincoln school also needs repairing.

As a matter of economy in the use of fuel, there should be another boiler at the training school; or, in the place of two, a large one. The boiler at the Main-street school is too old for much longer use, and it should be replaced by a new one.

The heating and ventilation of the Franklin and Spring-street schools, thirty years behind the times, should be replaced by new apparatus, if these houses are to be continued in use for day schools; but it is the opinion of the committee on repairs that a new building should take the place of the Franklin-street schoolhouse, sufficiently large for housing the Franklin school, half the Spring-street schools, and also afford relief for the overcrowded rooms in the Training School. The other half of the pupils in the Spring-street school could be accommodated, with the surplus in the Lowell-street house, at the new Straw school. This arrangement would leave the Spring-street building as the one best located for the use of the evening schools, drawing and common, and also for use of the manual training school. A separate house for these schools is greatly needed.

The committee on repairs are of the same opinion as last year, that an appropriation of \$6,000 will be annually needed for the proper repair of schoolhouses.

#### ORGANIZATION OF THE DAY SCHOOLS.

By an amendment to the public statutes of this state, made by its last legislature, the school year for all public schools throughout the state was made to comprise the months between two successive Augusts. The State Superintendent of Public Instruction accordingly requires that our annual school statistics shall be compiled and returned to him by August, and that they represent the results for the year preceding.

The following, therefore, shows the organization of our public schools from August, 1895, to August, 1896.

The average number of schools for the entire year was 108, reckoned as follows: The equivalent of 8 rooms of high-school grade; 28 grammar-school divisions, 1 more

than last year(*a*); 21 middle schools, the same as last year(*b*); 43 primary schools, 2 more than last year(*c*); 2 partially-graded schools; 5 ungraded suburban schools; and 1 manual training school.

It thus appears that there has been a gain of three schools over the number of last year. The gain in enrollment of pupils over the number of last year has been 176, ample justification for the equipment of the three new schools organized. The total enrollment of different pupils in the day schools for the year was 5,382, and in the evening schools 448.

There were employed for the care of the 108 day schools throughout the year: Seven male principals of large schools; a lady principal and a general assistant (2) (*d*) for the care of the training school for teachers; 103 class-room teachers(*e*), of whom eleven ladies were also principals of schools containing two or more rooms; and three special teachers of music and drawing; or in all, one hundred fifteen teachers for the entire year.

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(*a*) Miss Morison's division in the new Wilson school.

(*b*) The Bakersville Lower Middle of last year has been displaced by a Higher Primary this year, while the reverse of this happened at the Pearl-street house. The loss of a middle grade at the Lincoln school has also been off-set by the formation of another for two terms in the Varney house and of yet another for one term in the new Wilson building, these two being equivalent to one for the entire year.

(*c*) The formation of a second lower primary at Pearl-street and of another also at Spring-street, each for one term, with the new primary at Bakersville for the entire year, makes the gain in primaries equivalent to two new ones for the year.

(*d*) Aided by the young ladies constituting the sub-teachers' classes, who had charge of the several class rooms.

(*e*) Of these 103, four are males,—two sub-masters in the high School, the teacher at Youngsville, and the teacher of the manual training school.



## HISTORICAL.

The number and growth of our public schools, during the last twenty years, may be quite fully seen by an inspection of the following table:

YEARS.	Average No. schools.	Average No. teachers employed.*	Enrolled in public day schools.	Average No. belonging.	Average daily attendance.	Percentage of daily attendance.	Average attendance evening schools.	Graduated from grammar schools.†	Passed grammar schools for high school.‡	Entered high from grammar schools.†	Graduated from high school.	Average No. belonging to high school.
1877.....	69	70	3,607	2,571	2,413	93.8	96	60	60	48	38	179
1878.....	69	70	3,515	2,571	2,348	91.3	106	94	94	84	47	185
1879... ..	72	73	3,798	2,859	2,648	92.6	145	77	77	52	43	196
1880.....	74	76	4,136	2,970	2,727	92.0	91	75	75	61	38	183
1881.....	75	77	4,235	2,858	2,602	91.0	110	64	62	54	39	174
1882.....	74	76	4,095	2,957	2,712	91.7	164	76	65	57	53	172
1883.....	74	72	4,062	2,848	2,612	91.4	103	97	75	66	27	159
1884.....	75	73	3,918	2,872	2,645	92.1	95	85	71	49	38	162
1885.....	75	73	3,806	2,725	2,430	90.6	96	98	89	71	35	163
1886.....	77	75	3,632	2,698	2,475	91.9	79	78	71	53	42	175
1887.....	78	77	3,670	2,711	2,468	90.8	98	98	95	61	42	178
1888.....	78	77	3,712	2,768	2,500	90.3	116	88	80	58	45	185
1889.....	77	76	3,787	2,801	2,581	92.2	177	101	96	73	55	181
1890.....	77	76	3,814	2,795	2,536	90.7	141	121	114	83	33	184
1891.....	84	83	4,071	2,940	2,689	91.5	166	120	101	69	26	217
1892.....	89	89	4,298	3,130	2,837	90.6	174	116	103	67	42	226
1893.....	96 ‡	101	4,775	3,425	3,111	90.8	194	129	127	78	41	237
1894.....	101	107	4,975	3,662	3,336	91.1	153	175	162	112	63	251
1895.....	105	111	5,206	3,817	3,499	91.7	238	168	156	112	40	243
1896.....	108	115	5,382	3,999	3,651	91.3	140	138	130	119	43	270

\* Including special teachers, principals, assistants, etc.

† And the A class in suburban schools.

‡ Also a manual training school for one term, which is included in the number of schools for the next three years.

From the foregoing statistics it may be observed that the number of schools for fourteen years, out of the past twenty, varied by only one, two, or three occasionally; and that the net gain during these fourteen years was but eight schools, or an average gain of only the fraction of a school annually. In 1890 the free text-book law went into operation; and this, together with the more rapid growth of our city's population, has increased the number of schools by thirty-one within the past six years, an average increase of five schools annually. The net gain in twenty years has been thirty-nine schools. The greatest annual increase was in 1891, the year after the adoption of free text-books, when seven schools were added.

From observation of the "Attendance" column, I recall that children of French parentage came into the public schools in large numbers during 1879, 1880, and 1881. Then the French parochial schools began to be organized, and from 1881 till 1886 the withdrawal of French children from the public schools was so effectual that by 1886 there were scarcely more of them in our schools than in 1878. Since 1886, however, the public school enrollment has steadily grown from 3,632 to 5,382; or, there has been an average increase of 175 pupils annually, about 60 per room for the average increase of the three new school rooms yearly provided during the last ten years. This explains why we still have overcrowded schools that cannot be relieved without further increase of school accommodations.

#### HIGH SCHOOL.

Now that there will be ample room in the new high-school house for all grammar-school pupils who will become fitted for the High school, it seems wise so to modify the high-school course of study that a much larger pro-



portion of grammar-school graduates will enter the High school than have heretofore done so; and be induced to enter because more of them shall be made to feel that its course of study affords lines of work and training that broadly prepare for every general vocation. Only about seventy per cent of our grammar-school graduates have been in the habit of entering the High school. A large part of the other thirty per cent have presumably hurried out into the work of life because they have not been able to see in our school system much more that would appear to help them especially better to perform the duties of the vocations of their choice. I therefore recommend that the teaching of stenography, typewriting, and cooking be early incorporated in our high-school course of study, and that provision be made for first-class instruction in these subjects.

I would think it a mistake, however, to grant the high-school diploma for any period of attendance less than three years, the shortest course for which it is now granted. Any pupils who might desire to give special attention to the new studies suggested, could be allowed to take any two of them as an equivalent, in the English course, of Algebra the first year; of Geometry the second year; and of any one of the two optional studies the third year. Pupils who withdraw from the High school in good standing at the close of the second year are now granted a certificate of their completion of a two years' course. The certificate is of the size of the diploma, awarded in the same way, and upon the same occasion. This is sufficient recognition of the completion of a two years' course.

The diploma was formerly granted at the end of such a course, and it was then frequently observed that those pupils most eager to get it were ones best able to afford a longer course; and that the influence of the graduation of

these pupils sometimes caused all in the English course to complete it at the end of its second year. (See, for instance, the School Report for 1884, page 30.) Further evil effects of granting the high-school diploma at the end of a two years' course were to cheapen it in the estimation of nearly all good scholars, and to bring into the school too many who had so false a notion of the proper meaning of a diploma that they apparently became members of the school chiefly to obtain it; and, naturally, in the briefest time possible, and at the minimum amount of effort. Hence the English course was brought into greater or less contempt, and not patronized by the more scholarly grade of pupils; but since the award of the diploma for a two years' course was abandoned, the three and four years' English courses have been well patronized, the membership of the school has steadily increased, and the high-school course of study been held in much higher esteem.

This much has been said about the high-school diploma, lest upon the introduction of the new studies recommended, the mistake of granting the diploma for a two years' course might be repeated, through the idea that the award of the diploma for a brief course would be for the good of the school; but the facts, as experience has shown, are so clear that the good of the school would not be thus promoted, I have thought best to present them in connection with my recommendation.

Something should be done much to increase the size, and otherwise improve, the high-school library; and there should also be an annual appropriation of at least a hundred and fifty dollars, to provide for a yearly quota of new books and to rebind earlier supplies.

As soon as the High school can have sufficient rooms for a proper division of its classes, it should be provided with more teachers; and with a clerk to the principal,

also, to act as librarian, have charge of text-books and other free supplies, look after the excuses of absentees, etc. A graduate of the school, suitable for this work, could be procured at a low salary. It is not to the advantage of the city to require the principal of its High school, or other high-salaried teachers there, to do any more merely clerical work than that which cannot be avoided.

If, for lack of sufficient appropriations or other reasons, inexperienced teachers are employed in the High school, they should not, however scholarly, be allowed to instruct pupils that have not been members of such a school for a year and a half or two years; for beginners in high-school studies should be led to see such superiority in these studies as only experienced teachers can fully reveal, by reason of their greater skill in the presentation of them and their increased ability to promote and secure thoroughness upon the part of the pupil. Pupils who for the last two years of the grammar-school course have been under the instruction and discipline of such experienced and strong teachers as have charge of those grades here, will, upon entering the High school and there being placed under the instruction of either a weak or an inexperienced teacher, so grievously feel the difference, in the lack of helpfulness of treatment, that there must be danger they will discredit the High school at the outset, make invidious comparisons, spread reports of inefficiency, and declare the High school inferior to the grammar schools, kind for kind considered. To save the school from criticisms based upon such feelings, as well as to afford beginners that solid foundation they should early have in their high-school studies, I suggest that, whenever inexperienced teachers have to be employed in the High school, they be assigned recitations from among those of the two higher classes. As none but college

graduates are employed as teachers in the High school, they are sufficiently scholarly for instructing the more advanced classes; and they can more easily and better serve the interests of those well started in the work of the school.

#### HISTORICAL.

But little need be said of the High school, historically; because the utility, purposes, and results of this school have been so specifically set forth in former reports. It is therefore sufficient to call attention to the growth of the school, which is made apparent in the extended statistical table presented on a previous page.

From the last column of the statistical table it may be observed of the High school, as was the case of the lower-grade schools, that its number of pupils was more or less depleted from 1881 to 1886; and that there has been a good growth in the number since then, with a marked increase since 1890, when the free text-book law went into operation. During 1887, the average number of pupils belonging to the High school was 178; during 1888, 185; during 1889, 181; during 1890, 184; during 1891, 217; during 1892, 226; during 1893, 237; during 1894, 251; during 1895, 243; during 1896, 270. The enrollment of pupils during each of these years was, of course, somewhat larger than the average number belonging, which only is given above as the more correct representation of the constant size of the school. The enrollment during 1887 was 183. This gradually increased so that in 1892 the enrollment was 237; and for the school year ending June, 1896, it was 300. During the fall term, just closed, the enrollment was 323.

Our High school has a larger enrollment than any other school of similar grade in the state, by more than 100 pupils. Though our city is the metropolis of the state,

and might therefore be expected to have a still larger High school than it has, both relatively and absolutely, it should be borne in mind that there are in our city at least two extensive parochial school systems, including both academic and high-school grades, a fact which should materially modify comparisons as ordinarily made in regard to the number of pupils in our school. Moreover, when the size of our High school, which contains only high-school classes, is compared with the size of high schools in Massachusetts' cities, of about our population, it should be known whether or not the respective schools in Massachusetts, with which our High school may be compared, contain grammar-school classes, as some of them do; without this knowledge, any comparison made might be very erroneous and unjust to our school.

#### TRAINING SCHOOL FOR TEACHERS.

On account of the ill health of its principal, Miss Caroline E. Wing, the Training school was without her valuable services from January, 1895, till September, 1896. The school was in the meantime in charge of three different substitutes; and, of course, to its harm. During the winter and spring terms of this year, the school was in charge of Miss Etta A. Blaisdell, of Cambridge. She showed herself a very competent teacher for training-school work. Miss Blaisdell is now employed at an increased salary as assistant superintendent in the Brockton, Mass., public schools.

During the fall term, just closed, the Training school has labored under difficulties. There are 192 regular pupils' desks in its four school rooms, and there have been 284 pupils enrolled. Of these, 106 belonged to the lowest primary grade, there being three primary grades in this school. The average number belonging has been 229.

This has necessitated constant use of a recitation room as a school room; and that, too, without adequate relief. Moreover, the school has been short of its regular quota of pupil-teachers, which has further embarrassed the work. There are but three members of the Middle Class; and one of these has been absent on account of illness for so large a part of the term that she cannot become a member of the Senior Class at the regular time of advancement, February 1. Hence there will be but two Seniors to have charge of five school rooms, after that date; for it will be necessary to continue the use of the recitation room as a school room. Teachers for the other three rooms will therefore need to be provided till July; and I recommend the employment till then of three members of the present Senior Class (who will graduate the first of February) at regular substitutes' pay, \$1.50 per day.

There is great need of raising the standard of fitness for the graduation of pupil-teachers from the Training school. The first thing necessary to this end is the requirement of other qualifications upon the part of candidates for entrance to the school than mere completion of a high-school course. Too many are employed as regular teachers who have not sufficient vital force to last them through more than a term or two of teaching; and those who have constitutions so impaired, or weak, that they cannot be expected to enter the corps as forceful teachers, should certainly not be allowed to enter the Training school. There should therefore be a physical, as well as mental, examination of candidates for entrance to this school.

For a year or two, many more have sought admission to the Training school than could be allowed entrance. As the school is now organized, not more than five pupil-teachers can be admitted semi-annually; but there are thirty-one applicants waiting admission to the school.



The present is therefore an opportune time for the sub-committee of the school to inaugurate a better method of determining admissions to the school than to grant them upon the principle, "First come, first served." As long as there were not more than one or two applicants more than openings in the school, it was not so serious a mistake to admit them in the order of the dates of their written applications for admission. Now, however, the general standard of the Training school can be raised, and eventually the corps of teachers in general greatly improved, by determining the order of admission to the Training school from the results of a proper examination.

There are also other ways of improving the Training school; but it would require too many pages here for their elaboration, and it will be better every way to make them the subject of a special report sometime before June.

#### HISTORICAL.

The Training school was first organized experimentally in 1869, the "Higher Department" (of middle-school grade) under the charge of Miss Nancy S. Bunton as teacher, in the Merrimack-street schoolhouse at the corner of Union street; and the "Primary department" under the charge of Miss Helen M. Morrill as teacher, in the Manchester-street schoolhouse at the corner of Chestnut street. The design of the school was to afford means for supplying the city schools with better teachers, and with those somewhat conversant with a graded system; and also to provide for a better class of substitute teachers than could be secured from among the fresh graduates of the High school, who, it may be remarked, were soon found to be given permanent situations as regular teachers, and to attain greater success as such than those of experience whom the salaries here paid would attract from abroad. It was therefore reasoned that the city

schools could in no way be so surely and economically improved as by the establishment of a school for the proper training of the young lady graduates of the High school. So, largely through Superintendent Edgerly's instrumentality, the school was started as before mentioned. Later, the primary department of the school was transferred to the Merrimack-street house. The Training school was now improved by a re-organization which made Miss Bunton principal, with Miss Mintie C. Edgerly assistant, of the middle school department; and Mrs. Martha N. Mason principal, with Miss Anna O. Heath assistant of the primary department. For about a dozen years the work was wholly practical, and the training otherwise acquired was almost entirely by observation.

In 1882 the school was reorganized, to secure the advantages to be derived from a course of professional training for the teachers' class. The school has since prospered, and continued to supply the city schools with a large majority of their lady teachers. Many of its graduates are also successful teachers in other places.

This school affords opportunities for normal study, and for observation and practice in graded schools, at a moderate expense. Its advantages are offered, preferably, to young lady residents of Manchester, and graduates of the Manchester High school. So many of these have sought admission to the school in recent years that non-residents have practically ceased to be admitted.

For particulars in regard to improvements made by the reorganization of the Training school in 1882, see the annual school reports for 1882 and 1883.

The report for 1884 affords information in regard to the cost of the school, and it also furnishes other interesting particulars about results then attained.

The report for 1891 contains a copy of the "Circular of Information" issued that year, which sets forth the form



of organization under which the Training school is still operated. It also contains its course of study, and the rules and regulations made by the school board for the government of the school.

Principals.—Miss Nancy S. Bunton, 1869-1881. Miss Sarah E. Sprague, 1882-1884(*a*). Miss Olive A. Evers, 1885-1887. Miss Caroline E. Wing, 1887(*b*).

Pupil-teachers. At first there was no fixed period during which pupil-teachers were required to remain in the school, and many of them were soon called away to serve as substitutes or permanent teachers in the public schools.

The following is a list of those who served for different periods of time in the primary department, while located in the Manchester-street house:

Addie A. Marshall, Alice G. Lord, Nellie Tappan, Ida Gee, Martha N. Mason, Mary F. Barnes, Ella F. Salisbury, Celia Chase, Gertrude Borden, ——— Putnam, ——— Bartlett, and Emma F. Beane (12).

The following also served in the Merrimack-street house, in the early history of the school, for short and varying periods of time: Eliza I. Young, Kate W. Osgood, Clara E. Davis, Isabella G. Mack, Mary A. Buzzell, A. Lizzie Tolles, Nellie Cheney, Nellie Pearson, Susan Page, Emma H. Perley, Hattie B. Childs, Isabelle R. Daniels, Ella Whitney, Anna O. Heath, Lizzie H. Patterson, Anna J. Dana, Kate Joy, Annie M. Offutt, Nellie Tappan, Julia D. Marston, Emma M. Bennett, Addie M. Lear, Martha J. Boyd, and Rocilla M. Tuson (24).

When the two departments were first united, at the Merrimack-street house, it was provided that pupil-teachers should serve six months,—three weeks in each of the

(*a*) Till the fall term, during which Miss Eleanor E. Jones was principal.

(*b*) Granted leave of absence from February, 1895, till September, 1896.

four grades and twelve weeks in the grade of their choice,—before being considered

*Graduates of the Training School.*

The following is a complete list of such graduates, as shown by the records of the school: Martha E. Clough, Augusta S. Downs, Estella N. Howlett, Minnie C. Abbott, Jennie F. Bailey, Mary A. Smith, Annie M. Nichols, Medora Weeks, Etta J. Carley, Lucy W. Perkins, Emma J. Henry, Emma E. Lawrence, Jennie G. Stebbins, M. Eugenia Lord, Cora M. Dearborn, Ella F. Sanborn, Flora M. Senter, Florence McEvoy, Nellie M. Dennett, Ella F. Barker, Carrie M. Gilmore, Ida R. Eaton, Ellen A. Morrill, Lilla O. Cressey, Clara E. Woods, Emma C. Gee, Nellie B. Putnam, Clara G. Fogg, Jessie B. Farmer, Bertha L. Dean, Mary W. Mitchell, Belle M. Kelly, Clara J. Garland, Susan G. Woodman, Mary E. Sylvester, Fannie D. Moulton, Gertrude H. Brooks, Florence A. Nichols, Louisa R. Quint, Emma L. Stokes, May R. Fuller, Emma W. Mitchell, Myra P. Richardson, Lizzie J. West, Lizzie A. Burns, Emma S. Sanborn, Hattie L. Johnson, Annie W. Patten, Nellie M. James, Nettie C. Woodman, Lenora C. Gilford, Carrie I. Stevens, Josie H. Martin, Mary E. Bunton,\* Kate M. Follansbee,\* Georgie A. Wyman,\* Nina D. Annis, Lizzie D. Hartford, Fannie L. Sanborn, Kittie J. Ferren,\* Susie E. Greenwood, Edith M. Stebbins, Helen M. Wetherbee, Nettie F. Ainsworth, Susie H. Frame, Mary L. Gage, Ella Hope, Eva F. Tuson,\* Lelia A. Brooks, Bessie M. Hall, Mattie E. Sanborn, Genevieve L. Whitten, Alta C. Willand, Carrie A. F. Bartlett, Nina B. Corning, Mary J. Hickey, May F. Nutt, Barbara B. Joy, Sarah B. Paige, Alice E. Page,\* Hulda C. Graupner, Lillian C. Hall, Mary Southard, Cora B. Gilford, Lettie M. Smith, Emma McLaren, Mary J. Walsh, Theodora Rich-

ardson, Genieve Knight, Nellie M. Atwood, Nettie B. Fogg, Abbie R. West, Lillian Little, Inez M. Warren, Kate Townsend, Maude L. Kent, Emma B. Abbott, Alverta P. Barrett, Millie S. Morse, Bertha A. Young, Annie B. Goodwin,\* Mabel J. Brickett, Mary E. Moulton, Gertrude L. Southard, Mary G. Worthen, Georgia M. Cheney, Gertrude A. Burns, Annie M. Sleeper, Mary A. Clement, Susie L. Dodge,\* Mary W. Allen, Issa M. Tuttle, Mabel R. Brown, L. May Choate,\* Annie R. Corson, Mary J. Corcoran,\* E. Alfreda Hall,\* Carrie E. Head, Mertie C. Hawks,\* Josie L. Riddle, Mary S. Richardson,\* M. Minnie Sturtevant, Annie Brigham,\* Josephine A. Mitchell,\* Nellie C. Parker,\* Nellie M. Smith,\* Bertha L. Kemp,\* Bessie E. Dodge,\* Cora M. Farmer,\* Clydie M. Flanders, Mary A. Fay,\* Marcia M. Moore,\* Emma B. Abbott,\* Maud L. Smith,\* Hellen Morison, Lenora J. Clough, Hattie S. Tuttle, Amy K. Northrup, Helen E. True, Lizabell Savory, Hattie O. Willand, Florence L. Abbott, Blanche L. Batchelder, A. Maude Lamprey, Margaret C. Lane, Harriet H. Richardson, Katie E. Batchelder, Blanche E. Hicken, Minnie M. Phillips, Dora B. Tuson (150).

The foregoing arrangement of names does not indicate the relative times of graduation, but the order of entrance to the school. The order of graduation has been interfered with by sickness and other causes.

Several others entered the Training school undoubtedly for the purpose of graduation; but most of those entering prior to those named in the list of graduates were called away before they had completed the course, to fill positions as teachers here or elsewhere, and others voluntarily withdrew for reasons of their own. The following constitutes a list of both these classes, and of all those who, not heretofore named, have entered the school

\* Elected regular teacher before completing full period of training-school service; but provision is made for award of training-school diploma to such under certain conditions.

Annie H. Abbott, Elvira S. Prior, Belle B. Corey, Josie A. Boshier, Cleora E. Bailey, Ara A. Platt, Olive J. Randall, Helen M. Locke, Sarah M. Hadley, Izetta S. Locke, Julia A. Dearborn, Etta C. McLaren, Nellie M. Brown, Olive A. Rowe, Ella J. Trickey, Jennie Spence, Florence G. Bartlett, Annie L. Prescott, Anne E. Abbott, Emma M. Streeter, Bertha M. Cayzer, Carrie E. Litch, Perla E. Higgins, Rowena L. Walker, Dora M. Martin (deceased), and Mabel L. How (26).

#### MANUAL TRAINING SCHOOL.

The propriety and advantage of affording instruction in manual training in the public schools are quite fully set forth in the Annual School Report for 1891, pages 23, 24, etc. These pages will reveal what is meant by manual training, and indicate the purpose of teaching it somewhat extendedly in the public schools.

In the fall of 1892, an expert teacher of drawing was first employed in our schools for full time, as it had come to be seen that a good knowledge of drawing is the essential basis of every form of manual training. In September of the same year, a high-grade course in manual training was introduced in our school system by the equipment and opening of a school, on Lowell street, for the purpose of teaching the use of tools to pupils in the last two years of the grammar-school course. This school was placed in charge of Mr. Fred E. Brown, of Concord. It was a success from the start, and it has proven more decidedly so every term since. During the fall term, this year, 187 pupils have been enrolled in this school, 20 more than in the fall of 1895. The average weekly attendance and the number of pupils who have not been absent from any lesson is proportionally still more increased. This is significant of the growing interest; but improvement in

facilities has not kept pace with the advancement of the ability of the pupils to pursue courses requiring greater skill, because of the lack of sufficient room and equipment for furnishing the more extended instruction needed.

When the manual training school was first opened, it was equipped only for such instruction as could be afforded beginners in the use of tools. The school has now been in existence three years and one term. Some of the boys who entered the manual training school when it was first opened are still members of it, though now high-school pupils. These, as well as those doing second year work in this school, are in sore need of more extended facilities for practice in the use of tools. The manual training school cannot longer be carried on in the most profitable manner without increased facilities for properly advancing its work, as originally intended. Doubters of the utility of this school, before hesitating to give it loyal support, will do well to read the School Report of 1891 (pages 23, 24, etc.), the Report of 1893 (page 42), the Report of 1894 (pages 18, 19, etc.), and school reports of other cities in which the shop form of manual training has been introduced; and still more especially should doubters consult the two or three hundred pupils who have patronized the school in this city, and their parents also.

The first additional need of the manual training school is more room. This may be had at the new high school house; at the Straw school house, when the High school shall be removed therefrom; or, possibly best, at the Lowell-street house, by transferring one of the primary schools there to the Straw school house, which will soon be available for elementary schools. The next need of the manual training school is an equipment of three or four wood-turning lathes and a band saw, with electrical or other power. Wood-turning is one of the very best

features which can be introduced into this line of school work. It is of a character which brings a pupil to the necessity of thought and study; it teaches self-reliance, and trains the eye to see and the hand to perform difficult work with precision. Pattern making affords excellent training; it has a practical bearing also upon the industries, and will be undertaken if proper facilities are granted.

Wood-carving has already received some attention, of which specimens can be seen at the school; so, also, of writing-desks, bookcases, and a corner what-not, with panelled sides and inlaid casings; also other inlaid structures, and abundance of joint forms and other elementary work. There was a good exhibit of some of this work in my office window last June, which received much attention and high public commendation.

The manual training school has a fully competent and deeply-interested teacher, who has given many extra hours of service to the school. The school is also under the charge of a committee whose chairman is especially well equipped for the oversight of such an institution. The school is only in need of an adequate appropriation to make its work a grand success. The appropriation for this school, and the introduction of cooking in the High school, should for the coming year be not less than \$3,500.

#### MUSIC.

Not long after the decease of Professor Kimball, who had for many years been a most successful director and teacher of music in our schools, Prof. Fred B. Bower was selected to fill the vacancy. A few months before his appointment, the American Music System had been introduced on trial in all our primary schools. This system has proved quite satisfactory; and its use has been ex-



tended so that it is now taught throughout all our primary, middle, and suburban schools. The introduction of the system was given over to Miss Florence Dow, as assistant director, and most admirably did she accomplish the work. It was greatly to the regret of all that she was obliged to resign during the summer vacation on account of ill health. Miss Dow's place was filled by the appointment of Miss Jennie C. Heath. Though quite young for so responsible a position, and inexperienced in public-school teaching, she has succeeded surprisingly well. Professor Bower, who understands both the old system and the new,—the latter being gradually worked into the higher grades,—is head supervisor of instruction in music. His regular work as teacher is that of instructor in the high, grammar, and higher-middle schools.

Music is being uncommonly well taught in our schools; and the Standing Committee on Music is entitled to much credit for painstaking carefulness, and resultant success in making selections of efficient and satisfactory teachers in this department.

#### DRAWING.

The instruction afforded in drawing since 1891 has been very satisfactory. In 1892, Miss Charlotte J. Emmins, of Boston, became full-time director and teacher of drawing in all grades of our schools. The fine exhibits of drawings, from our various schools, which were made in my office last May and June, must have convinced all persons conversant with the state of drawing in the schools prior to 1892 that remarkably good progress had been made in the study of this subject during the past four years.

Miss Emmins was graduated at the Massachusetts Normal Art School. She subsequently studied in Eu-

rope, the better to perfect herself to become a teacher. Before coming here she had also had a few years' experience as special teacher in the public schools of other cities. She not only thoroughly understood her subject, but knew equally well how best to handle it for the benefit of teachers and pupils. Miss Emmins was a conscientious, painstaking, and faithful teacher. She made long days, worked hard, and was quite persistent in requiring proper attention and adequate results from grade teachers. She also otherwise manifested so great earnestness about her work that she caused her co-laborers properly to respond through the inspiration which she afforded, and the marked degree of progress which was constantly being made through her efforts caused all to feel well repaid for their co-operation.

Miss Emmins became Mrs. Edward H. Trask before the close of the school year; and her withdrawal from our schools at the close of the spring term was the occasion of much regret by all concerned.

Prof. J. Warren Thyng, elected to the position vacated by Mrs. Trask, has now served one term as director and teacher of drawing. Professor Thyng produced evidence of special training and of good success in teaching drawing in the public schools of two or three cities where he had formerly taught. He has made a favorable impression upon the corps of teachers, and is rendering good service.

The present course of study in drawing is the product of Mrs. Trask. It was formulated by her, at the request of the committee on drawing, as the result of the growth of the subject under her supervision here. Much labor was involved in preparing the course for the printer; and, as it was gratuitously done after her resignation, as a labor of love, Mrs. Trask is entitled to the cordial thanks of us all.



The course of study in drawing, as applied last year, was put in print in order that, with the incoming of a new supervisor of the subject, there might be no undesirable break in the study of drawing in our schools. The present use of this course will enable Professor Thyng to see what the schools have undertaken in this study, and what progress they can make in its following. He has shown excellent judgment and adaptability in adjusting his methods of instruction to the course of study; and, when it is outgrown, he will doubtless show wisdom in the character of his recommendations for its improvement.

#### THE WORK OF THE SCHOOLS.

The schools have in general made good progress throughout the year. The exhibits that were last summer made in my office of results attained in the teaching of penmanship, drawing, and manual training bore witness to the degree of efficiency acquired in these studies; and the attainments were, I think, generally conceded to be very good. Better work in arithmetic and geography has this year been done in the lower grades than ever before. This is, doubtless, largely due to the introduction of improved text-books, which have opened the eyes of teachers to greater possibilities and increased the interest of pupils. Instruction in the study of good literature in the elementary schools has been more general and much improved. The culture afforded by this instruction has also been supplemented by somewhat extended decorations of the school room walls, due to the efforts of teachers and the liberal response of many parents and friends.

The character of school work is everywhere recognized as chiefly dependent upon the teacher; and, if any in our corps have failed to exercise good judgment, shown lack

of knowledge or of tact, or in any way been unskilful, the shortcomings of such may be "attributed to errors of the head rather than of the heart"; for I take pleasure in testifying to the devotion and faithfulness of all our teachers in an earnest endeavor to promote the good of the schools.

### Obituary.

The close of a successful year's work was greatly saddened by the very sudden death of one of our more prominent teachers. Mr. Benjamin S. Andrew, Master of the Webster school since March, 1889, suddenly died the last day of October, away from home but accompanied by his devoted wife and among kind friends. Principal Andrew had been specially trained for the teacher's vocation. He was thoroughly devoted to it, and greatly in love with its work. He was a good teacher and an efficient principal. He will be long and sadly missed, but pleasantly remembered.

Appropriate resolutions upon the death of Mr. Andrew were passed by the Masters' Association, of which he was president; and, also, by the school board, the latter of which were spread upon the records of the board. A copy of each set of the resolutions was sent to Mrs. Andrew, as evidence of the sympathy of her husband's associates and co-laborers.

### SEMI-CENTENNIAL CELEBRATION.

The celebration of the fiftieth anniversary of our city's existence, the second week of last September, was every way a notable event; but it is not necessary here to enlarge upon it, since a memorial history of the celebration, about to be published, will give full particulars.

Suffice it now to say that the exercises in the mammoth

tent on Wednesday forenoon were for and by the city's school children, from the public, the parochial, and other private schools; and, though the celebration was during the summer vacation, about 6,000 children participated in the happy occasion.

#### CONCLUSION.

It becomes me again to thank you, gentlemen of the school board, as I most cordially do, for many kindly considerations and generous support. I extend thanks to the teachers, too, for hearty co-operation in all things calculated to improve the schools, and, in particular, to the grammar masters for special assistance in various ways. I also gladly acknowledge myself indebted to many parents and citizens for helpful suggestions and encouraging commendations.

Very respectfully submitted.

WILLIAM E. BUCK, *Superintendent.*



## APPENDIX.

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- I. POPULATION, ETC.
- II. SCHOOLHOUSES.
- III. SCHOOLS.
- IV. TEACHERS.
- V. PUPILS.
- VI. TRUANCY.
- VII. FINANCE.
- VIII. SCHOOL YEAR, 1896.
- IX. HIGH SCHOOL GRADUATING CLASS.
- X. WINNERS OF CLARKE PRIZES.
- XI. ORGANIZATION OF COMMITTEES, 1897.
- XII. LIST OF TEACHERS, 1897.
- XIII. SCHOOL YEAR, 1897.

## APPENDIX.

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### STATISTICS.

#### I.— Population.

Population of the city by last census, 1890.....	43,983
Legal school age, 5 to 21.	

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#### II.— Schoolhouses.

Number of schoolhouses in use.....	24
Number of schoolhouses not in use.....	0
Number of school rooms used for day schools.....	110

(Five of the same, and two of others, used for evening schools. Rooms unoccupied by city for day schools are one at Hallsville, two at the Spring-street house, and four at the School-street house.)

Number of rooms used for High-school classes.....	8
Number of rooms used for Grammar schools.....	28
Number of rooms used for Middle schools.....	22
Number of rooms used for Primary schools.....	44
Number of rooms used for Partially Graded schools.	2
Number of rooms used for Ungraded schools.....	5
Number of rooms used for Manual Training schools..	1

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#### III.— Schools.

( All for both sexes. )

Number of High schools (buildings).....	1
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None exclusively Grammar.

( A )

Number of combined Grammar and lower grade (Middle and Primary) schools.....	12
Number of combined Middle and Primary schools...	3
Number of schools all Primary grade.....	3
Number of Ungraded schools.....	5

#### IV.— Teachers.

Male teachers in the High school.....	3
Female teachers in the High school.....	5
Male teachers in the Grammar schools.....	6
Female teachers in the Grammar schools.....(a)	28
Female teachers in the Middle schools.....(a)	23
Female teachers in the Primary schools.....(b)	41
Female teachers in the partially graded schools.....	2
Male teachers in the Ungraded schools.....	1
Female teachers in the Ungraded schools.....	4
Special teachers.....	3
Average number of male teachers.....(c)	12
Average number of female teachers.....(c)	103
Male teachers in the evening schools.....	5
Female teachers in the evening schools.....	14
Average number of male teachers in the evening schools.....	5
Average number of female teachers in the evening schools.....	7
Male teachers in the evening Drawing schools.....	2
Average number of male teachers in the evening Drawing schools.....	2

(a) Six of the 28 are masters' assistants, and 1 of the 23 is assistant to the principal of the Training school. She and her assistant are, for convenience, both reckoned among the middle-school teachers.

(b) Three of the 44 primaries were in the Training school. They had no regular teachers, being taught by sub-teachers under the direction of the principal and her assistant.

(c) Including special teachers.

(B)

V.—TABLE SHOWING THE ATTENDANCE UPON THE VARIOUS DAY SCHOOLS FOR THE YEAR 1895-1896.

SCHOOLS.	Whole No. en-rolled.	Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
		Boys.	Girls.				
HIGH SCHOOL.....	300	132	168	270	248	91.8	Albert Somes, Master. G. I. Hopkins, sub-master. Harry N. McLaren. Nellie Pickering. Camillo Benson. } Assistants. Theresa B. Stanton. Mary J. Wellington. Sara Hunt.
GRAMMAR SCHOOLS.							
Franklin-street, First Division.....	51	16	15	41	39	95.1	Fred L. V. Spaulding, Master.
"    Second ".....	48	22	17	30	29	96.7	Alice C. Taggart.
"    Third ".....	62	21	25	43	36	83.0	Carrie E. Hoyt. } Assistants. L. May Choate. Carrie E. Head.
"    Fourth ".....	63	23	18	36	33	91.7	
Franklin-street totals.....	.....	82	75	150	137	91.3	
Spring-street, Fourth Division.....	36	22	14	23	21	91.3	Lizzie P. Gove.
Lincoln-street, First Division.....	48	23	22	44	41	93.2	Frank S. Sutcliffe, Master.
"    Second ".....	54	23	30	46	43	93.5	Annie W. Patten. } Assistants. Belle R. Daniels. Mabel J. Brickett. Mary F. Barnes.
"    Third ".....	56	24	28	47	44	93.6	
"    Fourth ".....	65	27	26	43	41	95.3	
Lincoln-street totals.....	.....	97	106	180	169	93.8	

(C)



Ash-street, First Division.....	49	23	26	43	40	93.0	{ Charles W. Bickford, Master. Mary Hickey Dowd. Eliza P. Dougherty, 1 term. Lillian C. Hall, 2 terms. Mabel R. Brown. Amelia L. Graupner. }
“ Second “ .....	50	21	24	45	42	93.3	
“ Third “ .....	57	29	27	47	42	89.1	
“ Fourth “ .....	56	24	24	44	40	90.9	
Ash-street totals.....	.....	97	101	179	164	91.6	
Varney, First Division.....	43	21	22	32	31	96.7	{ George Winch, Master. Barbara B. Joy. Rosabelle M. Franklin. E. Maria Dickey, Ellen E. McKean. Millie S. Morse. }
“ Second “ .....	62	27	33	45	43	95.5	
“ Third “ .....	60	27	31	40	38	95.0	
“ Fourth “ .....	56	21	33	44	42	95.4	
“ “ .....	54	28	21	35	33	94.3	
Varney School totals.....	.....	124	140	196	187	95.4	
Webster-street, First and Second Divisions .....	49	24	25	36	34	94.4	{ B. S. Andrew, Master. Abbie E. Wilson. Helen E. Frost. Alta C. Willard. }
“ Third Division.....	43	18	13	30	28	92.3	
“ Fourth “ .....	42	18	18	32	30	93.7	
Webster-street totals.....	.....	60	56	98	92	93.8	
Bakersville, Second and Third Divisions .....	22	9	15	20	19	95.0	Lizzie A. Burns.
“ Fourth Division .....	31	16	13	20	18	90.0	
Bakersville totals.....	.....	25	28	40	37	92.5	
Hallsville, Higher Grammar Classes.....	45	18	24	34	32	94.1	{ William H. Huse, Master. Ella F. Barker. Olive A. Rowe. }
“ Fourth Division .....	59	20	24	41	37	90.2	
Hallsville totals.....	.....	38	48	75	69	92.0	
Rimmon, Grammar Classes .....	40	12	11	25	23	92.0	Mary E. Brophy.
Wilson, † Third Division.....	63	11	23	32	29	90.6	Mary J. Corcoran.
“ † Fourth “ .....	112	27	20	36	33	91.7	
Wilson School totals.....	.....	38	43	68	62	91.2	{ Fessie E. Dodge, 1 term. Hellen Morison, 2 terms. }
GRAMMAR-SCHOOL TOTALS .....	.....	595	622	1034	961	92.9	

\* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.  
† On third floor of Lincoln-street schoolhouse during the fall and winter terms.

## ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

SCHOOLS.	Whole No. enrolled.		Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of attendance.	TEACHERS.
	Boys.		Girls.					
MIDDLE-SCHOOLS.								
Franklin-street, Higher.....	65	22	22	35	32	91.4	Nellie C. Parker.	
"    Lower.....	56	14	26	32	29	90.6	Amy K. Northrup.	
Spring-street, Higher.....	46	23	23	32	28	87.5	Emma L. McLaren.	
"    Lower.....	57	27	22	40	36	90.0	Faunie D. Moulton.	
Merrimack-street, Lower.....	83	33	18	41	35	85.1	C. E. Wing, Principal.	
Lincoln street, Higher.....	87	33	26	49	45	91.8	Nettie B. Fogg.	
"    Lower.....	66	31	30	45	44	97.7	{ Issa May Tuttle, 1 term. Bessie E. Dodge, 2 terms.	
Ash street, Higher.....	58	23	29	46	43	93.4	Emma J. Cooper.	
"    Lower.....	52	23	19	40	36	90.0	Kittie J. Ferren.	
Varney, Higher.....	78	21	27	43	41	95.3	Mary E. Moulton.	
Mixed.....	48	20	28	41	41	93.2	Blanche L. Bacheller, 2 terms.†	
Lower.....	85	27	32	46	43	93.5	Mary A. Seavey.	
Main-street, Higher.....	76	24	25	38	35	92.1	Mary W. Mitchell.	
Lower.....	79	23	33	40	37	92.5	Gertrude A. Burns.	
Rimmon, Mixed.....	52	20	18	28	26	92.8	Marcia M. Moore.	
Webster-street, Higher.....	57	26	12	41	38	92.7	{ Eva F. Tuson, 1 term. Carrie G. Mason, † 2 terms.	
Lower.....	62	25	22	42	40	95.2	Edith L. Hammond.	
Bakersville, Mixed.....	48	22	17	31	27	87.1	Gora M. Farmer.	
Hallsville, Higher.....	67	27	15	41	37	90.2	Susie G. Woodman.	
Lower.....	93	40	25	50	45	90.1	Mary L. Ayer.	
Wilson, Mixed.....	44	22	22	41	38	92.7	Cora B. Gifford, 1 term.†	
Pearl-street, Lower.....	44	21	20	34	32	94.1	Mary G. Tynan.	
MIDDLE-SCHOOL TOTALS.....	550	512	837	769	91.9			

(E)

## PRIMARY SCHOOLS.

Amoskag, Higher and Lower .....	55	29	23	38	33	86.8	Clydie M. Flanders.
Goffe's Falls, Mixed.....	40	20	17	33	31	94.2	Blanche M. Folsom.
Franklin-street, Higher.....	65	22	27	44	37	92.5	Nellie M. James.
" " Lower.....	74	36	29	44	40	90.9	Susie L. Dodge.
Spring-street, Higher.....	57	24	31	46	43	93.5	Nellie I. Sanderson.
" " Mixed.....	42	18	13	33	31	93.9	Maud L. Smith, 1 term.
" " Lower.....	75	25	31	41	37	90.2	{ Maud L. Smith, 2 terms.
" " Lower.....	82	39	41	37	32	86.5	{ Lizabell Savory, 1 term.
Lincoln-street, Higher.....	91	26	20	44	41	93.2	Florence M. Griffin.
" " Lower.....	108	39	26	45	42	93.3	{ Cora B. Gilford, 2 terms.
Ash-street, Higher.....	58	23	26	47	43	91.5	{ Theodora Richardson, 1 term.
" " Lower.....	64	31	29	49	43	93.5	{ May F. Nutt.
Webster-street, Higher.....	60	25	27	41	38	87.7	{ Bertha A. Young.
" " Lower.....	72	35	27	44	38	92.7	{ Jean Gillan.
Blodget-street, Higher.....	43	15	15	27	24	86.4	Mary E. Murphy.
" " Lower.....	65	33	27	36	32	88.9	Gertrude H. Brooks.
Lowell-street, Higher.....	104	46	41	43	37	86.0	Edith M. Stebbins.
" " Lower.....	97	32	33	40	34	85.0	Helen M. Morrill.
" " Lower.....	176	63	48	41	39	93.0	Mary S. Richardson.
Merrimack-street, Higher.....	101	48	33	44	38	86.4	Mabel M. Stevens.
" " Lower.....	109	35	27	47	41	87.2	{ C. F. Wing, principal.
" " Lower.....	142	81	47	61	51	83.6	{ Annie W. Coffin, assistant.
Rimmon, Higher.....	61	30	18	27	25	92.6	Lenora J. Clough.
" " Lower.....	86	45	36	38	36	94.7	Emma B. Abbott.
Main-street, Higher.....	57	25	24	40	38	95.0	{ Helen Morison, 1 term.
" " Higher.....	71	22	26	43	40	93.0	{ Mary A. Clement, 2 terms.
" " Higher.....	64	28	24	41	39	95.7	Lottie M. Clement.
" " Lower.....	75	30	22	43	41	95.3	{ Mary A. Clement, 1 term.
" " Lower.....	69	43	17	46	45	97.8	{ Minnie E. Sturtevant, 2 terms.
" " Lower.....	96	54	33	40	35	92.0	{ Minnie E. Sturtevant, 1 term.
Varney, Higher.....	76	30	35	50	46	97.5	{ Hattie O. Willard, 2 terms.
South Main-street, Higher.....	59	22	23	38	34	88.3	Kate T. Clarke.
" " Lower.....	80	37	40	41	36	87.8	{ Gertrude L. Southard.
							{ Mary J. Walsh.
							{ Delle E. Haines.
							{ Georgia M. Cheney, 2 terms.
							{ Margaret C. Lane, 1 term.

\* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.

† Substitute for Miss Tuson.

‡ This school and the other one similarly marked together equivalent to one school for entire year.

## ATTENDANCE UPON THE VARIOUS DAY SCHOOLS.—Continued.

PRIMARY SCHOOLS.—Continued.	Whole No. enrolled.	Whole No. belonging.*		Average No. belonging.	Average daily attendance.	Per cent of daily attendance.	TEACHERS.
		Boys.	Girls.				
Bakersville, Higher.....	49	23	18	37	34	91.9	Augusta S. Downs.
" Lower.....	45	15	20	29	26	89.6	Izetta S. Locke.
" Lower.....	69	30	33	32	29	90.6	Annie Brigham.
Hallsville, Higher.....	77	25	28	50	45	90.0	Bertha L. Kemp.
" Lower.....	76	26	33	43	39	90.7	E. Alfreda Hall.
" Lower.....	91	47	38	40	36	90.0	Annie R. Corson.
Wilson, Higher †.....	75	18	25	36	32	88.8	Hulda C. Graupner, 2 terms.
" Lower †.....	87	33	41	42	37	88.1	Harriet H. Richardson, 1 term.
Pearl-street, Higher.....	56	26	19	40	37	92.5	M. Clara Hawks.
" Mixed.....	61	26	24	40	36	90.0	Nellie M. Smith.
" Lower.....	42	18	24	36	33	91.6	Ella Hope.
PRIMARY-SCHOOL TOTALS.....	1,398	1,239	1,722	1,551	90.2		Georgia M. Cheney, 1 term.
PARTIALLY GRADED SCHOOLS.							
Anoskeg, Grammar and Middle.....	43	16	18	32	28	87.5	Lettie M. Smith.
Goffe's Falls.....	46	23	21	33	32	96.9	Georgie Kendrick.
PARTIALLY GRADED SCHOOL TOTALS.....	89	39	39	65	60	92.3	

(G)

## UNGRADED SCHOOLS.

Stark District.....	20	11	9	15	13	86.7	Inez M. Warren.
Harvey District.....	24	13	11	17	15	88.2	Emma J. Eln.
Youngsville.....	37	22	13	24	18	75.0	Louis H. Bailey.
Webster's Mills.....	13	5	5	8	7	87.5	Josephine L. Riddle.
Mosquito Pond.....	9	7	2	7	6	85.7	Nellie M. Atwood.
UNGRADED-SCHOOL TOTALS.....	58	40	71	59		83.1	
Aggregate totals for 1896.....	†	2,772	2,610	3,999	3,651	91.3	
Aggregate totals for 1895.....	†	2,627	2,579	3,817	3,499	91.7	

\* Exclusive of duplicate enrollments, no account being made of pupils received by promotion or transfer from other of the city schools.

† In old Wilson Hill schoolhouse during the fall and winter terms.

‡ Totals here would involve a multitude of errors. Many pupils would be reckoned two or three times, on account of numerous transfers from one school to another, made at the July promotion, at times of removal to other districts, etc., etc.

## DAY SCHOOLS.

Summary of attendance upon the several grades of public day schools for the year 1895-1896:

GRADES.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily at- tendance.
	Boys.	Girls.			
High.....	132	168	270	248	91.8
Grammar.....	595	622	1,034	961	92.9
Middle.....	550	512	837	769	91.9
Primary.....	1,398	1,229	1,722	1,554	90.2
Partially graded.....	39	39	65	60	92.3
Ungraded.....	58	40	71	59	83.1
Totals, 1896 .....	2,772	2,610	3,999	3,651	91.3
Totals, 1895 .....	2,627	2,579	3,817	3,499	91.7

## EVENING SCHOOLS.

Summary of attendance upon the several grades of public evening schools for the year 1895-1896:

SCHOOLS.	Whole number different pupils.		Average No. belonging.	Average daily attendance.	Per cent of daily at- tendance.
	Boys.	Girls.			
Merchants' Exchange.....	190	.....	58	47	81.0
Spring street.....	.....	114	30	24	80.0
Rimmon.....	61	12	36	25	69.4
School street.....	64	34	15	13	86.6
Drawing schools { Mechanical.....	47	.....	20	18	90.0
{ Architectural.....	26	.....	15	13	86.6
Totals, 1896.....	288	160	174	140	80.5
Totals, 1895.....	474	244	303	238	78.5

*Evening School Teachers.*

Charles E. Cochran, principal at Merchants' Exchange, for boys.

Assistants—William J. Mooar, Honorie J. Crough, Mary A. Walker, and Mary A. Buzzell.

Josephine Mitchell, principal of Spring-street school, for girls.

Assistants—Maggie Linen, Hattie S. Tuttle, and Hattie O. Willand.

L. H. Carpenter, principal of School-street school, for both sexes.

Assistant—Myrtie Hatch.

Arthur W. Morgan, principal of Rimmon school, for both sexes.

Assistants—William W. Forbes, Lillian C. Hall, Annie R. Morison, Lizabell Savory, Elizabeth F. Walsh, Carrie G. Mason, and Florence Richardson.

*Evening Drawing-School Teachers.*

John M. Kendall and Henry W. Allen.

## GENERAL SUMMARY.

See statistical table in the body of this report for a condensed statement of the main features of interest pertaining to the number of schools, pupils, teachers, graduates, and attendance upon the public schools, for the last twenty years.

## CHANGES IN CORPS OF TEACHERS.

The whole number of different teachers employed one term or more in the day schools, within the year, has been 110. Their respective positions may be learned from the attendance tables on pages C, D, E, F, G, and H of the Appendix, but the various changes made within the year can be more readily understood by an inspection of the following:

(J)

Teachers.	Date of effect of resignation.	Teachers.	Date of begin- ning service.
Eliza P. Dougherty.	Dec. 13, '95.	Blanche L. Bachelder.	Feb., '96.
Issa May Tuttle.	" "	Hattie O. Willand.	" "
		Margaret C. Lane.	April, '96.
		Harriet H. Richardson.	" "
		Lizabell Savory.	" "

## TRAINING SCHOOL.

Sub-teachers.	Graduated.	Sub-teachers.	Entered.
Flore'ce L. Abbott.	Jan. 24, '96.	M. Frances Abbott.	Jan. 24, '96.
Blanche L. Bachelder.	" "	Mary A. Cotter.	" "
Alice M. Lamprey.	" "	Katharine Frain.	" "
Margaret C. Lane.	" "	Lura B. Gage.	" "
Ha'ri't H. Richardson.	" "	Florence L. Abbott.	Sept. 14, '96.
Katie E. Batchelder.	June 26, '96.	Lillian F. Crowther.	" "
Blanche E. Hicken.	" "	Winnifred W. Hall.	" "
Minnie M. Phillips.	" "	Florence Richardson.	" "
Dora B. Tuson.	" "	Gertrude Adams.	Feb. 1, '97.
Bessie Cochrane.	Jan. 29, '97.	Annie B. Angell.	" "
Maude M. Greaney.	" "	Mary E. McLaren.	" "
Mary L. Heath.	" "	Grace A. Phillips.	" "
Mabel F. Robinson.	" "	Ede B. Quimby.	" "
		Flora M. Walker.	" "
		Elizabeth F. Walsh.	" "

(K)



## VI.—Work of Truant Officer.

DATE.	Absentees reported from		No. voluntarily returned to		No. reported caused to attend		No. moved out of the city.	No. found sick and unable to attend.	No. otherwise unavoidably detained.	No. not found.
	City schools.	Parochial schools.	City schools.	Parochial schools.	City schools.	Parochial schools.				
September .....	64	14	4	3	25	12	5	5	22	2
October.....	89	27	5	6	35	36	12	14	6	1
November .....	64	26	5	3	33	25	3	4	15	1
December.....	20	9	4	..	8	8	1	5	3	..
January.....	78	38	8	5	41	22	7	11	22	..
February .....	62	26	3	5	33	18	2	12	13	2
March.....	45	10	2	2	20	7	1	12	11	..
April .....	74	48	14	14	46	29	3	7	9	..
May .....	89	32	10	2	52	21	13	6	16	2
June .....	81	40	13	4	50	26	4	11	9	3
Totals .....	666	270	68	44	343	204	51	87	126	11

DATE.	Truants not enrolled found on streets.	No. truants caused to attend		No. of school age found on streets in school hours.	No. of parents visited.	No. temporarily confined at the police station.	No. brought before the court.	No. employment certificates granted.
		City schools.	Parochial schools.					
September .....	64	29	35	79	122	1	.....	41
October .....	46	30	16	119	118	.....	.....	39
November.....	43	20	23	208	216	.....	.....	32
December .....	4	2	2	81	79	1	.....	58
January.....	53	30	23	265	212	1	.....	65
February.....	36	20	16	141	179	.....	.....	47
March .....	8	6	2	109	73	1	.....	73
April.....	40	24	16	207	163	.....	.....	55
May.....	68	28	40	239	253	4	2	71
June .....	30	17	13	187	136	1	.....	30
Totals.....	392	206	186	1,625	1551	9	2	511

## VII. — Finances. — 1896.

ITEMS OF ACCOUNT.	Resources from appropriations and transfers.	Expenditures, 1896.
Salaries of teachers.....	\$72,838.95	\$72,838.95
Books and stationery.....	46.04	46.04
Free text-books and supplies.....	5,058.42	5,058.42
Furniture and supplies.....	1,114.14	1,114.14
Repairs.....	6,578.38	6,578.38
Care of rooms .....	5,031.56	5,031.56
Fuel.....	6,784.03	6,784.03
Printing and advertising.....	429.56	429.56
Contingent expenses.....	1,857.79	1,857.79
Evening common schools .....	1,061.50	1,061.50
Evening drawing schools.....	356.25	356.25
Manual training.....	1,403.29	1,403.29
Totals.....	\$102,559.91	\$102,559.91

## COST OF CITY SCHOOLS.

Expenditures, as above specified..... \$102,559.91

*Salaries.*

Members of the school board.....	\$200.00
Clerk of the board.....	150.00
Superintendent of schools.....	2,300.00
Truant officer.....	750.00
Total.....	\$105,959.91

*Receipts on Account of Schools.*

Literary fund.....	\$3,869.60
Non-resident tuition*.....	334.02
Sale of text-books.....	216.43
Total.....	\$4,420.05

\* School tax from Londonderry included, \$44.47.

(M)

Net amount raised by taxation..... \$101,539.86

The city valuation for 1896 is \$29,443,668; and hence the rate of school tax for the year is \$101,539.86 divided by \$29,443,668, or .0034 plus. Last year the rate was .0032.

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### VIII. — School Year, 1895-1896.

Fall term of fourteen weeks opened September 9, 1895; closed December 13. Vacation of two weeks.

Winter term of twelve weeks opened December 30, 1895; closed March 20, 1896. Vacation of three weeks.

Spring term of eleven weeks opened April 13, 1896; closed June 26, 1896. Vacation of eleven weeks.

Number of school days in the year, as provided above by the school board, 185.

Average number of days the schools were taught, 175.

( Being closed several holidays, days of "Teachers' Institutes" and half-days on account of bad weather or insufficient heat. )

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### IX. — High School Graduation.

#### PROGRAM.

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Salutatory. "Character."

Flora Mildred Walker.

Chorus. "The House that Jack Built."

Alfred J. Caldicott.

Class History.....Frank Sewell Chase

Class Prophecies.....Celia Huntington Rogers

Chorus. "Day-break."

J. D. C. Parker.

- Class Poem.....Harry Louis Bailey  
 Piano Solo. "La Caressante".....*Blumenthal*  
                   Harry Chase Whittemore.  
 Oration. "A Liberal Education."  
                   Winfred Egbert Burbank.  
 Chorus. "The Miller's Wooing."  
 Valedictory. "The Development of Character."  
                   Gertrude Adams.  
 Award of Diplomas.....Rev. C. J. Staples  
 Class Ode.

## CLASSICAL COURSE.

- |                                   |                           |
|-----------------------------------|---------------------------|
| Gertrude Adams.                   | Georgina Harper Morison.  |
| Harry Tanner Adams.               | Ethel Alberta Nicholson.  |
| William Edward Boire.             | Ede Belle Quinby.         |
| Burton Winthrop Buck.             | William Joseph Simons.    |
| Alice Patterson Burnham.          | Georgia Ida Southard.     |
| Harry Wilfred Fitts.              | George Langdon Spaulding. |
| Grace Florence Francis.           | Edward Balch Stearns.     |
| Barbara Adelaide Gulliver.        | Lillian Cobleigh Tarbell. |
| Winnifred Wadleigh Hall.          | Flora Mildred Walker.     |
| Mary Pierce Johnson.              | Harry Chase Whittemore.   |
| Frederick George Bradstreet Kemp. |                           |
|                                   | Henry Albert Worthen.     |

## COLLEGE COURSE.

- |                           |                           |
|---------------------------|---------------------------|
| Harry Louis Bailey.       | Royden Winthrop Cheney.   |
| Oliver Winslow Branch.    | Ralph William McAllester. |
| Elisabeth Scribner Brown. | Mary Eleanor McLaren.     |
| Winfred Egbert Burbank.   | Arthur Newman Tasker.     |

THREE YEARS' ENGLISH COURSE.

Shirley Payson Dodge.	Celia Huntington Rogers.
Mary Francis French.	Iola Siddall.
Lizzie May Grant.	Bertha May Tisdale.
Clara O. DeMoulied.	Grace Mary Tolman.
Harry Hall Preston.	Verna Augusta Wason.

FOUR YEARS' ENGLISH COURSE.

Annie Belle Angell.	Frank Sewell Chase.
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SCIENTIFIC COURSE.

Frederick Edwin Atwood.

TWO YEARS' CERTIFICATE.

Harry Dexter Heath.	Hovey Edward Slayton.
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SPECIAL STUDENT.

Grace Longley Kendall.

HONOR SCHOLARS.

Classical Course.....	Gertrude Adams
College Course.....	Arthur Newman Tasker
English Course.....	Annie Belle Angell

X. — Winners of Clarke Prizes

FOR EXCELLENCE IN ELOCUTION AT CONTEST, JANUARY 31,  
1896.

*Oratorical Style of Delivery.*

Lynn B. Hammond, \$10.	Lena Mae Crough, \$6.
Frank L. Parshley, \$4.	

(P)

*Dramatic Style of Delivery.*

Edna L. Merrill, \$10.      Aubrey E. Burnham, \$6.  
Blanche Pearl Varnum, \$4.

*Narrative Style of Delivery.*

Clara Foster, \$10.      Georgia Marion Kelty, \$6.  
Gladys I. Lougee, \$4.

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## XI. — Organization, 1897.

## SCHOOL COMMITTEE.

WILLIAM C. CLARKE, MAYOR,      Chairman *ex-officio*.

GEORGE B. ROGERS,

President of Common Council, *ex-officio*.

- Ward 1. Elliott C. Lambert.  
Walter B. Heath.
- Ward 2. Charles H. Manning.  
Augustus P. Horne.
- Ward 3. George D. Towne.  
Louis E. Phelps.
- Ward 4. Nathaniel L. Colby.  
Henry D. Soule.
- Ward 5. James P. Slattery.  
John T. Kelley.
- Ward 6. Harry I. Dodge.  
Herbert E. Richardson.
- Ward 7. Edward B. Woodbury.  
Edson S. Heath.
- Ward 8. Luther C. Baldwin.  
Ned T. Wallace.

Ward 9. R. Emmet Walsh.  
Henry I. Lemay.

VICE-CHAIRMAN OF THE BOARD.

GEORGE D. TOWNE.

CLERK OF THE BOARD.

EDWARD B. WOODBURY.

SUPERINTENDENT OF PUBLIC INSTRUCTION.

WILLIAM E. BUCK.

SUPERINTENDENT'S CLERK.

FANNIE L. SANBORN.

TRUANT OFFICER.

CURTIS W. DAVIS.

STANDING COMMITTEES.

*Finance.* Mayor Clarke and Messrs. Rogers, Woodbury, Richardson, and Wallace.

*Salaries.* Messrs. Woodbury, Slattery, W. B. Heath.

*Text-Books.* Messrs. Baldwin, Towne, Richardson, and Lambert.

*Music.* Messrs. Walsh, Phelps, W. B. Heath.

*Drawing.* Messrs. Towne, Baldwin, Slattery.

*Manual Training.* Messrs. Richardson, Towne, Baldwin.

*Examination of Teachers.* Messrs. Colby, Lambert, Woodbury.

*Fuel and Heating.* Mr. Dodge, Mayor Clarke, Messrs. Rogers, Manning, Horne.

*Repairs.* Messrs. Manning, Phelps, Lemay.

*Attendance.* Messrs. Phelps, E. S. Heath, Kelley.

*Health.* Messrs. Soule, Walsh, Towne.

## SUB-COMMITTEES.

*High School.* Messrs. Manning, Towne, Phelps, Slattery, Baldwin, Lambert.

*Franklin-street.* Messrs. Woodbury, Lambert, Richardson.

*Spring-street.* Messrs. W. B. Heath, Slattery, Horne.

*Lincoln-street and Youngsville.* Messrs. Colby, Wallace, Woodbury.

*Ash-street.* Messrs. Phelps, Walsh, Baldwin.

*Webster-street.* Messrs. Towne, Manning, Kelley.

*Bakersville and Mosquito Pond.* Messrs. Slattery, Dodge, E. S. Heath.

*Varney.* Messrs. Baldwin, Colby, W. B. Heath.

*Hallsville and Harvey.* Messrs. Richardson, Lemay, Towne.

*Rimmon School.* Messrs. E. S. Heath, Horne, Lemay.

*Training School.* Messrs. Lambert, Baldwin, Walsh.

*North Main-street.* Messrs. Horne, W. B. Heath, Slattery.

*Parker.* Messrs. Wallace, Richardson, Colby.

*Amoskeag and Stark.* Messrs. Lemay, E. S. Heath, Wallace.

*Lowell-street and Webster's Mills.* Messrs. Kelley, Soule, Lambert.

*Pearl-street.* Messrs. Soule, Woodbury, Dodge.

*Wilson and Goffe's Falls.* Messrs. Dodge, Kelley, Soule.

*Blodget-street.* Messrs. Walsh, Phelps, Manning.

*Evening Schools.* Messrs. Colby, Manning, Woodbury.

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List of Teachers.

## HIGH SCHOOL.—BEECH STREET.

Master. Albert Somes.

Sub-Master. George I. Hopkins.



Assistants. Harry N. McLaren.  
 Nellie Pickering.  
 Florence M. Locke.  
 Theresa B. Stanton.  
 Mary J. Wellington.  
 Sara Hunt.  
 Annie W. Colby.

FRANKLIN-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. Fred L. V. Spaulding.  
 Master's Assistant. Alice C. Taggart.  
 Assistants. Carrie E. Hoit.  
 L. May Choate.  
 Carrie E. Head.

*First Floor.—Lower Grades.*

Higher Middle. Nellie C. Parker.  
 Lower Middle. Amy K. Northrup.  
 Higher Primary. Nellie M. James.  
 Lower Primary. Susie L. Dodge.

LINCOLN-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. Frank S. Sutcliffe.  
 Master's Assistant. Annie W. Patten.  
 Assistants. Isabelle R. Daniels.  
 Mabel J. Brickett.  
 Mary F. Barnes.

*First Floor.—Lower Grades.*

Higher Middle. Mabelle E. Porter.  
 Lower Middle. Bessie E. Dodge.  
 Higher Primary. Theodora Richardson.  
 Lower Primary. Hulda C. Graupner.

## ASH-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. Charles W. Bickford.

Master's Assistant. Mary Hickey Dowd.

Assistants. Mabel Ruth Brown.

Lyle D. Glovier.

Amelia L. Graupner.

*First Floor.—Lower Grades.*

Higher Middle. Emma J. Cooper.

Lower Middle. Kittie J. Ferren.

Higher Primary. May F. Nutt.

Lower Primary. Bertha A. Young.

## WEBSTER-STREET SCHOOL.

*Second Floor.—Grammar Grades.*

Master. John Gault.

Master's Assistant. Helen E. Frost.

Assistants. Luna A. Whitlock.

Alta C. Willand.

Eva F. Tuson.

*First Floor.—Lower Grades.*

Higher Middle. Edith L. Hammond.

Lower Middle. Jean Gillan.

Higher Primary. Mary E. Murphy.

Lower Primary. Ora E. Goodwin.

## VARNEY SCHOOL.

*Second Floor.—Grammar Grades.*

Master. George Winch.

Master's Assistant. Barbara B. Joy.

Assistant. Rosabelle M. Franklin.

*First Floor.—Mixed Grades.*

Assistants. Esther M. Dickey.

Ellen E. McKean.

Higher Middle. Millie S. Morse.  
 Lower Middle. Mary J. Walsh.  
 Higher Primary. Marcia M. Moore.  
 Lower Primary. Effie M. Philbrook.

## HALLSVILLE SCHOOL.

*Second Floor.—Mixed Grades.*

Master. William H. Huse.  
 Master's Assistant. Ella F. Barker.  
 Assistants. Olive A. Rowe.  
 Katie E. Batchelder.  
 Higher Middle. Susie G. Woodman.

*First Floor.—Lower Grades.*

Lower Middle. Mary L. Ayer.  
 Higher Primary. Bertha L. Kemp.  
 Lower Primary. E. Alfreda Hall.  
 Lower Primary. Annie R. Corson.

## SPRING-STREET SCHOOL.

*Second Floor.—Mixed Grades.*

Principal. Lizzie P. Gove.  
 Higher Middle. Emma L. McLaren.  
 Mixed Primary. Maud L. Smith.

*First Floor.—Lower Grades.*

Lower Middle. Fannie D. Moulton.  
 Higher Primary. Nellie I. Sanderson.  
 Lower Primary. Lizabell Savory.  
 Lower Primary. Helen E. True.

## BAKERSVILLE SCHOOL.

*Second Floor.—Mixed Grades.*

Principal. Lizzie A. Burns.  
 Assistant. Lelia A. Brooks.\*

\*Third floor.

Higher Middle. Cora M. Farmer.\*  
Lower Middle. Augusta S. Downs.

*First Floor.—Lower Grades.*

Higher Primary. S. Izetta Locke.  
Lower Primary. Mary L. Heath.

RIMMON SCHOOL.

*Second Floor.*

Principal. Mary E. Brophy.  
Mixed Middle. Mary A. Seavey.

*First Floor.*

Higher Primary. Hattie S. Tuttle.  
Lower Primary. Blanche E. Hicken.

WILSON SCHOOL.

*Second Floor.*

Grammar. Hellen Morison.  
Higher Middle. Cora B. Gilford.  
Lower Middle. Harriet H. Richardson.

*First Floor.*

Principal. Mary J. Corcoran.  
Higher Primary. M. Clara Hawks.  
Lower Primary. Florence L. Abbott.  
Lower Primary. Bessie Cochrane.

TRAINING SCHOOL.

(Merrimack street, corner Union.)

Principal. Caroline E. Wing.  
Head Assistant. Blanche L. Batchelder.

• Third floor.

The principal is also assisted by the sub-teachers, *i. e.*, members of the training class. The school embraces the first four years of school work, in the following grades: Lower Primary, Higher Primary, and Lower Middle. There are four rooms, two of lower-primary grade.

#### MAIN-STREET SCHOOL.

##### *Second Floor.—Mixed Grades.*

Principal. Mary W. Mitchell.  
Lower Middle. Gertrude A. Burns.  
Middle and Primary. Mary A. Clement.  
Higher Primary. Lottie M. Clement.

##### *First Floor.—Primary Grades.*

Higher Primary. M. Minnie Sturtevant.  
Mixed Primary. Hattie O. Willand.  
Lower Primary. Kate T. Clarke.  
Lower Primary. Margaret C. Lane.

#### PEARL-STREET SCHOOL.

Principal. Mary G. Tynan.  
Lower Middle. Nellie M. Smith.  
Higher Primary. Ella Hope.  
Lower Primary. Georgia M. Cheney.

#### PARKER SCHOOL.

Principal. Mary E. Moulton.  
Higher Primary. Delle E. Haines.  
Lower Primary. Blanche M. Folsom.

#### BLODGET-STREET SCHOOL.

##### *Second Floor.*

Principal. Gertrude H. Brooks.

##### *First Floor.*

Lower Primary. Edith M. Stebbins.

## LOWELL-STREET SCHOOL.

*Second Floor.*

Lower Primary. Mary S. Richardson.

Lower Primary. (Vacancy.)

*First Floor.*

Principal. Helen M. Morrill.

## PARTIALLY GRADED SCHOOLS.

Amoskeag. Lettie M. Smith.

Mixed Primary. Clydie M. Flanders.

Goffe's Falls.\* Mary L. Brown.

Mixed Primary. Edith Caldwell.

## UNGRADED SCHOOLS.\*

No. 1. Stark. Inez M. Warren.

2. Harvey. Emma J. Ela.

3. Youngsville. Louis H. Bailey.

4. Webster's Mills. Josephine L. Riddle.

5. Mosquito Pond. Nellie M. Atwood.

## SPECIAL TEACHERS.

Music. Fred B. Bower.

Jennie C. Heath.

Drawing. J. Warren Thyng.

Manual Training. Fred E. Browne.

## JANITORS.

*High School and Ash-Street School.*

John S. Avery.

*Lincoln-Street School.*

William Stevens.

\* Suburban.

*Webster-Street and Blodget-Street Schools.*

Charles F. Jack.

*Spring-Street and Lowell-Street Schools.*

S. H. Batchelder.

*Training School and Franklin-Street School.*

Varnum H. Hill.

*Varney and Parker Schools.*

H. G. Batchelder.

*Main-Street and Rimmon Schools.*

William F. Conner.

*. Bakersville School.*

Edwin N. Baker.

*Hallsville and Pearl-Street Schools.*

William H. Newry.

*Wilson School.*

J. S. Washburn.

*Amoskeag School.*

James E. Bailey.

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### XIII. — School Year, 1896-1897.

Fall term of fourteen weeks opens September 14, 1896; closes December 18, 1896. Vacation of two weeks.

Winter term of twelve weeks opens January 4, 1897; closes March 26, 1897. Vacation of two weeks.

Spring term of eleven weeks opens April 12, 1897; closes June 25, 1897. Vacation of eleven weeks.

\* Suburban.

## MANCHESTER HIGH SCHOOL COURSE OF STUDY. MODIFIED 1894.

ENGLISH DIVISION. 3 or 4 Years. *	CLASSICAL DIVISION. 4 Years. ENGLISH AND LATIN, WITH FRENCH IF DESIRED.	COLL. PREPARATORY 5 Years.    ENGLISH, LATIN, GREEK, AND FRENCH.	SCIENTIFIC PREPARATORY. 5 Years. ENGLISH AND FRENCH.
	FIRST YEAR.—FALL TERM.		
Algebra. Advanced English Grammar. Physics.	Algebra. Latin. Physics.	Same as the Classical Division.	Same as the English Division.
	WINTER TERM.		
Algebra. English Grammar, completed. Physics.	Algebra. Latin. Physics.	Same as the Classical Division.	Same as the English Division.
	SPRING TERM.		
Algebra. Composition. Physics.	Algebra. Latin. Physics.	Same as the Classical Division.	Same as the English Division.
	SECOND YEAR.—FALL TERM.		
Geometry.* Rhetoric. † Physiology.	Geometry. Latin. Physiology.	Geometry. Latin. Greek.	Geometry. Rhetoric. † French.
	WINTER TERM.		
Geometry. General History. Civil Government.	Geometry. Latin. Civil Government.	Geometry. Latin. Greek.	Geometry. General History. French.
	SPRING TERM.		
Geometry. General History. Botany. †	Geometry. Latin. Botany. †	Geometry. Latin. Greek.	Geometry. General History. French.
	THIRD YEAR.—FALL TERM.		
English History. Commercial Arithmetic. } French § may take Chemistry. } the place of either.	Latin. English History, } French may take } the place of either. Chemistry	His. and Geog. of Rome. Latin. Greek.	Algebra rev. English History. French.



WINTER TERM.		
English Authors. Book-keeping } French may take and Arithmetic. } the place of either. Chemistry.	General History, } Latin. Chemistry. } French may take the place of either.	His. of Rome and Greece. Latin. Greek.
SPRING TERM.		
English Authors. Book-keeping } French may take and Arithmetic. } the place of either. Chemistry.	General History, } Latin. Chemistry. } French may take the place of either.	His. and Geog. of Greece. Latin. Greek.
FOURTH YEAR.—FALL TERM.		
Algebra rev. Eng. Grammar rev. Astronomy.	Rhetoric. Algebra rev. } French may Astronomy. } take the place of either.	Algebra rev. } Latin. Greek.
WINTER TERM.		
Trigonometry, or Arithmetic rev. Mental Science. Physical Geog.	English Authors. Trigonometry, } French may or Arith. rev. } take the place Physical Geog. } of either.	Arithmetic rev. Latin. Greek.
SPRING TERM.		
Surveying, or Geometry rev. Mental Science. Mineralogy and Geology. †	English Authors. Surveying, } French may or Geometry rev. } take place Mineralogy } of either. and Geology. †	Geometry rev. Latin. Greek. (FIFTH YEAR, NEXT COL.)
A DECLAMATION OR AN ESSAY (ALTERNATING) IS REQUIRED OF EACH PUPIL EVERY TWO WEEKS THROUGHOUT THE COURSE.		

\* Pupils in the English Division, who expect to withdraw at the end of the second year, may, if they so elect, take the mathematics of the third year in place of geometry; and upon withdrawal at the end of the second year each will receive a proper certificate.

† "Studies in English" once a week next three terms, to connect the study of Grammar and rhetoric with the work to be done in English Authors.

‡ Botany, Mineralogy, and Geology given special local application.

§ French ought not to be taken by those intending to leave school before the close of the fourth year.

|| Examinations in mathematics for admission to Harvard College can be taken a year before entrance; and pupils desiring to enter other colleges may take the English studies

; of the fifth year as extras during the fourth year, if they so elect and are deemed capable, in order to omit the fifth year preparatory.

¶ Latin and Greek alternate weekly throughout the fifth year.



REPORT  
OF THE  
CHIEF ENGINEER OF FIRE DEPARTMENT.



REPORT  
OF THE  
CHIEF ENGINEER OF FIRE DEPARTMENT.

---

CHIEF ENGINEER'S OFFICE, }  
CENTRAL STATION, NO. 8 VINE STREET. }

MANCHESTER, N. H., December 31, 1896.

*To His Honor, William C. Clarke, Mayor, and Gentlemen of  
the City Councils:*

In compliance with the Laws and Ordinances of the city of Manchester, I herewith submit my eighteenth annual report (it being the fifty-first of this city) for the year ending December 31, 1896.

The number of alarms the department have responded to, in part or as a whole, will be found in the following pages, and the cause of fires as far as could be ascertained, together with the value of property endangered, amount of insurance on the same, and loss thereon.

There have been eighty-six bell alarms and eighty-seven still alarms, making a total of one hundred and seventy-three calls during the year. Of the bell alarms, one was the "out-of-town" 2-2-2, for a brush fire just across the city line, in Hooksett, endangering several buildings; and seven were false alarms, pulled by malicious persons, and for which the authorized reward of \$20 was offered; but as yet no one has been apprehended; and of the "still

alarms," one was by telephone from Epping, N. H., to which Steamer No. 4, with Hose Wagon and delegation of men were sent; and fifteen were for brush fires in the outskirts of the city, where in some cases buildings were endangered, but no damages resulted, except the one of May 13, on the Dunbarton road, where considerable pine wood was destroyed.

The amount of property endangered where fires have occurred has been quite large, but the net amount of loss very small, as will be seen by the following figures:

Value of buildings endangered.....	\$660,500.00	
Value of contents endangered.....	114,385.00	
		<u>\$774,885.00</u>
Insurance on buildings endangered.....	\$349,550.00	
Insurance on contents endangered.....	71,200.00	
		<u>\$420,750.00</u>
Damage to buildings endangered	\$10,960.12	
Damage to contents endangered	12,999.13	
		<u>\$23,959.25</u>
Insurance paid on buildings endangered.....	\$10,276.92	
Insurance paid on contents endangered.....	10,750.13	
		<u>\$21,027.05</u>
Net loss uncovered by insurance.....	\$2,932.20	

#### THE MANUAL FORCE

of the department remains the same as last year, one hundred and sixty,—thirty-three of whom are permanent, and are divided as follows:

	Call.	Permanent
1 Chief Engineer.....		1
4 Assistant Engineers.....	4	
Engine Co. No. 1.....	11	3
Engine Co. No. 2.....	11	3
Engine and Ladder Co. No. 3.....	15	5
Engine Co. No. 4.....	11	3
Engine and Ladder Co. No. 5.....	16	4
Engine and Ladder Co. No. 6.....	16	4
Hose Co. No. 1.....	11	1
Hose Co. No. 2.....	11	1
Hose Co. No. 3.....	6	2
Aerial Truck No. 1.....	12	3
Chemical No. 1.....	3	2
Spare driver.....		1
	<hr/> 127	<hr/> 33

## THE BUILDINGS.

The stations of Engine No. 2 and Engine and Ladder No. 3 are greatly in need of painting outside. Neither of them has received any attention in this particular since they were completed, the former in 1886, and the latter in 1888.

The roof over the apparatus room and hay loft of Truck No. 1, at Central station, ought to receive early attention. The present construction allows most of the surface water to trickle down the south wall, and in winter ice freezes on the same, both of which tend to wash out the mortar, and weaken that side of the building.

Additions ought to be made to the stables of Engine and Ladder Companies Nos. 5 and 6, and box stalls arranged for the accommodation of a horse when sick, as there is no room in either stable at present to *properly* care for them when "off duty."

A shed for the storage of the exercise wagon for Engine and Ladder No. 3, alluded to in previous reports, should be erected at that station, as well as one for Hose No. 3.

#### THE APPARATUS

Of this department consists of 6 Amoskeag steam fire engines in good condition, 4 hose carriages with reels, 5 hose wagons, 4 ladder trucks, 1 of which is an aerial truck carrying other ladders, 2 hose carriages in outlying districts, with independent companies attached, 2 hose carriages, without companies, 1 supply wagon, 7 exercise wagons, located as follows:

2 steam fire-engines, with three-horse hitch, at Central station, each with one-horse hose wagon attached.

1 steam fire-engine, three-horse hitch, with 1 two-horse hose wagon, North Main street.

1 steam fire-engine and 1 two-horse hose wagon, at corner Lake avenue and Massabesic street.

1 two-horse ladder truck at same station.

1 steam fire-engine and one-horse hose carriage, at corner of Webster and Chestnut streets.

1 two-horse ladder truck at same station.

1 steam fire-engine and one-horse hose carriage on Rimmon street, corner of Amory street.

1 two-horse ladder truck at same station.

1 one-horse hose carriage at Central station.

1 one-horse hose carriage, corner Maple and East High streets.

1 two-horse combination hose wagon, South Elm street. (Bakersville.)

1 aerial hook-and-ladder truck at Central station (three-horse hitch).

1 double tank (60 gallons each) chemical engine at Central station.

1 supply wagon at Central fire station.



1 steam fire-engine (reserve) at station of Engine No. 2 (of but little use for fire purposes).

1 four-wheeled hand hose carriage at junction of Old Falls road and Front street, Amoskeag.

1 two-wheeled hose carriage, Devonshire Mills, Goffe's Falls.

1 two-wheeled hose carriage at W. P. Farmer's at junction of Candia road and Hanover street.

1 two-wheeled hose carriage, junction Mammoth road and Massabesic street (Hallsville).

7 exercise wagons, 1 at Central fire station, 1 at Engine No. 2, 1 at Engine and Ladder No. 3, 1 at Engine and Ladder No. 5, 1 at Engine and Ladder No. 6, 1 at Hose No. 2, 1 at Hose No. 3.

I trust another year will not pass without the addition of a chemical engine for the West Side, which I have previously recommended. The efficiency of these engines at the early stages of a fire cannot be doubted, and the use of them in many cases prevents a considerable amount of damage by water.

#### THE HORSES.

There are at the present time forty horses owned by this department, including the "spare" horse, which is kept pretty busy most of the time, and even with an extra horse, we have been obliged to hire another a portion of the time, while others were on the sick list.

There has been during the past year a great deal of needless swapping, shifting, and trading by the committee, to suit their whims, or those of some others, which has increased the bill for horses to an unnecessary extent; and even with the many changes that have been made, there are still three horses unfit for the duties required of them. The gray horse "Frank," of Engine No. 1, and the bay mare of Hose No. 2, are both too old for the

service required, and one of the grays of Engine No. 6, on account of lameness, should also be retired.

The rest of the horses, barring accidents, are in fairly good condition.

#### THE FIRE ALARM TELEGRAPH.

Storage battery for fire alarm service is no longer an experiment, and actual tests of several years' trial demonstrate it to be much cheaper and more effective than the gravity battery so long in use.

I would strongly recommend the adoption of the storage battery, at an early date, for our fire alarm telegraph. Our already overcrowded battery room requires the change, and its adoption can be had on quite reasonable terms; or it could be put in on rental, with a guarantee that its yearly cost will be much less than it now is for our present gravity system, thus making it a safe investment for the city.

August 22, box 115, at corner of Gore and Ash streets, and box 217, at corner of Massabesic street and Candia road, were added to the system; and two additional boxes have recently been voted by the city councils, and will be numbered 28, at corner of Merrimack and Beacon streets, and 57, at corner of D street and Mast road.

The placing of the box-key under a glass on the box has given malicious persons opportunity for giving seven false alarms; but its convenience in case of actual fires has fully demonstrated its usefulness, and we hope the police may yet be successful in apprehending the guilty parties, and thus stop a proceeding that endangers life and property.

The electric railroad, wholly regardless of the orders of the city councils, have failed to construct and maintain properly insulated guard-wires over their trolley wires.

This matter ought to receive the immediate attention of the incoming city councils, and the managers of the electric road be obliged to put guard-wires the entire length of their trolley wires, as the falling of a telephone or telegraph wire on the trolley wires in any section is liable to cause a fire, even some distance from the cross, by the crossing of other wires. During the month of October last, the entire fire-alarm system of a city in Michigan was burned out through the contact with a trolley wire, and with the present unguarded trolley of this city, our fire-alarm is liable to the same fate. *Safety to life and property demands early attention to this matter.*

A steam gong would add much to the efficiency of this system for an outside alarm, and could be heard in any portion of the city.

During the year 18 new poles have been set, 6 old ones re-set, put up 181 two-pin, 20 four-pin, and 3 six-pin cross-arms, 9 box-arms, 20 single extensions, 10 two-pin, and 2 four-pin extensions, changed 23 gongs, run about 3 miles of bare wire, 1 mile of insulated tree-wire, and changed over about 5 miles of wire. There are now about 40 miles main line and 35 miles "tapper" line of wire.

#### THE SEVENTEENTH ANNUAL PARADE.

During the week of the semi-centennial celebration of the city, this department helped celebrate the fiftieth anniversary by making its seventeenth annual parade on Wednesday, September 8, and it was witnessed by one of the largest crowds of people ever assembled in this city.

#### CASUALTIES.

During the year four slight and one serious accidents have occurred. February 2, Lyman W. Piper, driver of Truck No. 3, injured his knee while coming down the slid-

ing pole; May 22, Thomas C. Foote, of Engine Co. No. 2, while working at the fire at Wallace's planing mill, burned his hand so as to be unable to work for seventeen days; October 18, Arthur W. Whitecomb, driver of hose wagon of Engine No. 2, while hitching his horses in response to an alarm from box 42, was injured by the pole of the wagon swinging against him, and was unable to do duty for thirty-eight days; October 20, Charles M. Denyou, driver of Truck No. 1, was injured in his hand while harnessing his horses for stray blows, caused by the street department breaking the wires in cutting down trees, disabling him for three weeks.

The most serious accident that has occurred in the department for many years was the instant death of Lieut. Thomas E. Gorman, of Engine and Ladder No. 6, caused by being thrown from the truck while responding to an alarm from box 53, for a fire on the river road in Bedford. Lieutenant Gorman had been connected with the department since the organization of his company, October 16, 1893.

Edwin E. Weeks, engineer of the same company, died on the 2d of May, at Pembroke, N. H., while absent on sick leave. Mr. Weeks joined the department as a "call member" of Hose No. 1, April 5, 1880; was transferred to Assistant Engineer of Engine No. 3, February 11, 1888, and promoted to Permanent Engineer of Engine No. 6, on the formation of that company, October 16, 1893, which position he held at the time of his death.

### *In Memoriam.*

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EDWIN E. WEEKS,  
ENGINEER OF ENGINE No. 6.  
BORN AT MANCHESTER, N. H., APRIL 12, 1859,  
DIED AT  
PEMBROKE, N. H., MAY 27, 1896.  
AGED 37 YEARS, 1 MONTH, 15 DAYS.

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THOMAS E. GORMAN,  
LIEUTENANT OF TRUCK No. 6,  
BORN AT AUGUSTA, MAINE, 1856,  
KILLED DECEMBER 30, 1896,  
WHILE RESPONDING TO AN ALARM FROM  
Box 53.  
AGED 40 YEARS.

## THE FIREMEN'S RELIEF ASSOCIATION.

On account of the number of drafts upon the treasury, and the small number of contributions, the funds of this association have fallen below that of last year. The receipts for the year have been as follows:

*Receipts.*

Balance in treasury February 11, 1896.....	\$3,702.69	
Received for membership.....	7.00	
donation, A. P. Olzeu- dam Co.....	25.00	
donation, Jeremiah Hodge.....	15.00	
donation, Rt. Rev. Bish- op Bradley.....	10.00	
Dividend on deposits.....	116.61	
	<hr/>	\$3,876.30

*Expenditures.*

Paid funeral benefit of Edwin E. Weeks.....	\$50.00	
Thomas C. Foote, injuries at fire.....	17.00	
Andrew S. Heath, injuries at fire.....	5.00	
Lyman W. Piper, injuries....	6.00	
Arthur W. Whitcomb, inju- ries.....	49.50	
Charles M. Denyou, injuries..	19.00	
Joseph E. Merrill, secretary..	25.00	
Nate Kellogg Co., printing By-Laws.....	7.25	
	<hr/>	\$178.75
Balance in treasury.....	\$3,697.55	
Making an excess of \$5.14 over the receipts.		

## CONCLUSION.

I trust those in charge of buying horses for this department during the administration of the incoming city government will exercise such care in their selection as will give us horses better adapted for the duties required of them, and at less prices, than has prevailed during the last two years.

The salary paid the permanent captains ought to receive consideration and adjustment. According to the present construction of the ordinance, they are now receiving less pay than other permanent men; and it seems that an officer with the care and responsibility of the men and apparatus under his immediate charge, should receive more salary than that of the privates under him.

I desire again to allude to the urgent necessity of a State Fire Marshal. The importance of such an officer in Massachusetts has done much to lessen the fire losses, as well as to bring many guilty parties to justice. It would not only be a saving to insurance companies, but property holders as well; and what is for the interest of one party, is, in a great measure, for the interest of the other; and I trust both will unite in asking for the passage of an act by our state legislature, creating such an office.

In closing, I desire to extend many thanks to His Honor Mayor Clarke, for the many courtesies received at his hands, and the interest he has at all times manifested in the welfare of this department; to the members of the city councils, to the chief of police and the officers under his charge. To the assistant engineers, officers, and men great credit is due for the prompt and efficient manner in which they have responded to every call for duty, and they are entitled to, and have, my heartiest thanks.

Respectfully submitted.

THOMAS W. LANE,  
*Chief of Fire Department.*



**List of Fires and Alarms Responded to During 1896,  
with Losses and Insurance.**

Box 511. Wednesday, January 1, 10.13 A. M. Three-story wooden tenement block at 246 Douglas street, owned by Frank P. Johnson, and occupied by August Schmalfuss. The fire originated in a bed, from some unknown cause. Damage slight. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, and Truck 6. Fire extinguished without aid of department.

Box 312. Wednesday, January 1, 1.33 P. M. False alarm. Box pulled by mischievous boys, who broke glass and obtained key. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 6.

STILL. Wednesday, January 1, 4.35 P. M. Chimney fire in tenement house 133 Manchester street, owned by Mrs. Joy. No damage. Members of Chemical responded. Used one charge of Pony.

Box 215. Thursday, January 2, 11.25 P. M. Two-story brick carriage factory at corner Lincoln and Somerville streets, owned and occupied by Kimball Bros. The fire was caused by boards piled against the boiler and ignited from the furnace. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 2, 3, Truck 3. No damage.

Box 71. Saturday, January 4, 10.06 P. M. Chimney fire in Mrs. Kearns's block, corner of Lake avenue and Pine street. No damage. Box pulled by Officer Sumner. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

STILL. Sunday, January 5, 10 P. M. Chimney fire in wooden block, corner of Washington and Church streets. No damage. Used two charges of Pony.

STILL. Monday, January 6, 9.54 A. M. Chimney fire at No. 36 Pearl street. Used one charge of Pony. No damage.



STILL. Monday, January 6, 9.56 A. M. Chimney fire at No. 14 Clark avenue. Used two charges of Pony. No damage.

Box 8. Monday, January 6, 7.55 P. M. Chimney fire in Webster block, No. 8 Winter Place. Used Pony. No damage. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Box pulled by citizen.

STILL. Tuesday, January 7, 8.50 A. M. Slight fire in partition at No. 1074 Elm street, Wells block, caused by thawing water pipes with blow-lamp. No damage.

STILL. Tuesday, January 7, 9.55 A. M. Two-and-a-half-story house at No. 65 Amherst street. Funnel of stove fell off, filling rooms with smoke. No damage.

STILL. Tuesday, January 7, 10.05 A. M. Three-story brick building, occupied by H. J. Lawson as metal cornice-maker. Slight fire in partition caused by forge. No damage.

STILL. Tuesday, January 7, 6 P. M. Chimney fire in Martin's block, McGregor street, owned by Gordon Woodbury. Members of Engine and Ladder 6 responded. Used one charge of Pony.

Box 82. Thursday, January 9, 6.03 P. M. One-story woodshed, in rear of No. 1077 Elm street, owned by E. K. Rowell, and occupied by Boston Clothing Co. The contents of the shed were of no value; consequently no damage to that part. Box pulled by Thomas Kelley. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Cause unknown. Value of buildings, \$100; damage to building, \$25; no insurance.

Box 321. Thursday, January 9, 6.55 P. M. Chimney fire in two-and-a-half-story house, No. 39 Sullivan street, owned and occupied by Charles Buckley. No damage. Box pulled by citizen. Companies responding: Engines 2, 5, 6, Chemical, Hose 1, Trucks 5, 6.

STILL. Saturday, January 11, 10.46 P. M. Chimney

fire in Kimball's block, No. 1221 Elm street. Members of Chemical responded. No damage. Used one charge of Pony.

Box 15. Sunday, January 12, 1.09 P. M. Three-story wooden block at No. 541 Chestnut street, owned by Nason Hale and Mrs. Phineas Adams, and occupied by Mrs. Charles Huntress and others. The fire was caused by thawing water-pipes with burning paper, and spread rapidly through the partition to the roof. Box pulled by E. H. Holmes. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$4,500; damage, \$350; insurance, \$2,000; insurance paid, \$350. Value of contents, \$1,500. Damage, \$20; no insurance.

Box 4. Tuesday, January 14, 5.55 P. M. Chimney fire at No. 64 Cedar street in tenement house, owned by Hugh Kelley. No damage. Box pulled by citizen. Companies responding: Engines 2, 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Wednesday, January 15, 9.40 A. M. Chimney fire at No. 136 Lake avenue. Members of Chemical responded. No damage. Used three charges of Pony.

STILL. Monday, January 20, 2.20 P. M. Three-story wooden block, Clark avenue, Pearl street, owned by Charles C. Hayes, and occupied by several families. The fire was in a partition near the chimney, and caught from a defective flue. Chemical Engine responded. Value of building, \$6,000; damage, \$30; insurance, \$4,000; insurance paid, \$30. No damage to contents.

STILL. Thursday, January 23, 8.30 A. M. Hose No. 3 was called to the Slaughter and Rendering works on Hancock street, for slight fire in a partition. Considerable smoke, but no damage.

STILL. Friday, January 24, 8.26 A. M. Chimney fire in two-story wooden block, No. 47 Church street. No damage. Used one charge of Pony.

Box 7. Tuesday, January 28, 7.22 P. M. Two-story wooden block, at No. 42 Merrimack street, owned by the Knights of Pythias Association, and occupied by Joseph Keller as tailor shop on first floor, and Dennis Daily as tenement up stairs. The fire originated in the back room of Keller's shop, from some unknown cause, while Keller was out. Box pulled by Officer Welch. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of buildings, \$3,200; damage, \$50; insurance, \$3,000; insurance paid, \$50. Value of contents, \$400; damage, \$200; insurance, \$500; insurance paid, \$200.

STILL. Thursday, January 30, 6 P. M. Chimney fire at No. 22 Wayne street, owned by Kate Cullity, and occupied by F. Roy. No damage. Members of Engine and Ladder Co. No. 6 attended, using two charges of Pony.

Box 54. Sunday, February 2, 9.54 P. M. Unoccupied cottage house, No. 38 Prince street, owned by Hollis Tolles, of Londonderry. The cause is unknown. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building, \$1,000; damage, \$800; insurance, \$800; insurance paid, \$800.

Box 15. Monday, February 3, 3.01 P. M. Cottage house at 114 Orange street, owned and occupied by W. H. Moison. The fire was caused by careless construction of fire-place. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Extinguished with Chemical engine. Value of buildings, \$4,500; damage, \$47; insurance, \$2,000; insurance paid, \$47. Value of contents, \$3,000; damage, \$217; insurance, \$2,000; insurance paid, \$168.

STILL. Friday, February 7, 7.57 P. M. Chimney fire at No. 38 Washington street. No damage. Members of Chemical responded.

Box 51. Sunday, February 9, 7.06 A. M. Barn, at corner of Turner and Walker streets, owned and occupied by

John W. Wilson. A dead telephone wire crossed with electric light wire, and resting on the roof, set fire to shingles. No damage. Box pulled by John W. Wilson. Companies responding: Engines 2, 6, Chemical, Truck 6.

Box 82. Sunday, February 9, 6.32 p. m. Tenement house at No. 27 Washington street, owned by John H. Major, and occupied by Charles Sincer. The fire was in a box of clothes and a bed, doing but little damage. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Extinguished by Chemical engine.

STILL. Thursday, February 13, 5.30 p. m. Chimney fire at No. 1280 Elm street, Webster block. Members of Chemical responded. No damage.

STILL. Sunday, February 16, 7.34 p. m. Chimney fire at No. 37 Laurel street. No damage. Members of Chemical responded. Used one charge of Pony.

Box 6. Monday, February 24, 9.37 p. m. Four-story brick block (Opera block), No. 18 Hanover street, owned by Harrington heirs and Parker, and occupied by George Gossman & Co., as dry and fancy goods store. The fire originated from some unknown cause, near the center of the store, and spread with such rapidity as to burst from the side windows before it was discovered. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 3. Value of building, \$75,000; damage, \$800; insurance, \$50,000; insurance paid, \$800. Value of contents, \$7,000; damage, \$4,352.59; insurance, \$6,500; insurance paid, \$4,352.59.

Box 5. Wednesday, February 26, 5.43 p. m. Four-story granite building, 797 Elm street, owned by John Cleworth, and occupied by J. F. Dignam & Co., apothecaries. Fire was caused by open chimney in basement. Extinguished by Chemical engine. No damage. Companies responding: Engines 1, 2, 3, Chemical, Hose 1, Trucks 1, 3.

Box 71. Monday, March 2, 6.50 P. M. Slight fire in shed belonging to Mrs. Michael Maloney, rear of No. 191 Lake avenue. Fire was caused by hot ashes in wooden tub. No damage. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

STILL. Tuesday, March 3, 1.04 P. M. Chimney fire in block owned by T. L. Thorpe, corner Granite and West streets. No damage. Members of Engine No. 2 responded. Used three charges of Pony.

STILL. Tuesday, March 3, 6.10 P. M. Chimney fire corner of Elm and Cedar streets. No damage. Responded to by members of Hose 3.

STILL. Tuesday, March 3, 6.28 P. M. Chimney fire in wooden tenement block, Nos. 15-25 Marion street. No damage. Members of Engine and Ladder No. 6 responded. Used two charges of Pony.

STILL. Tuesday, March 3, 7.30 P. M. Chimney fire at No. 132 East Spruce street. No damage. Members of Chemical responded. Used one charge of Pony.

STILL. Friday, March 6, 8.55 A. M. Chimney fire at No. 552 Chestnut street. No damage. Members of Chemical responded.

Box 6. Friday, March 6, 3.09 P. M. A smoking stove caused an alarm for what was supposed to be a fire in the Damon Club room, No. 31 Hanover street. No damage. Box pulled by police officer. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 3.

Box 9. Monday, March 9, 10.40 P. M. Barn in rear of No. 771 Chestnut street, owned and occupied by H. Frank Morse. Fire caught from sparks from stove in hostler's room. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, Truck 1. Value of building, \$1,200; damage, \$90; insurance, \$1,000; insurance paid, \$90. Value of contents, \$2,000; damage, \$40; no insurance.

STILL. Friday, March 13, 7.20 P. M. Chimney fire at Kidder Court. Chemical responded, but not used. No damage.

STILL. Tuesday, March 24, 10.05 A. M. Chimney fire at No. 220 Chestnut street, in house owned and occupied by Patrick Horan. No damage. Used one charge of Pony.

Box 511. Tuesday, March 24, 9.35 P. M. Two-story house on Groux's Island, 'Squog river, owned by Peter Groux, and unoccupied. The bridge was washed away, and the island was out of reach of the department. Cause of fire unknown. Box pulled by Officer Connor. Companies responding, Engines 2, 6, Chemical, Truck 6. Value of building, \$1,000; damage, \$600; insurance, \$600; insurance paid, \$600.

STILL. Friday, March 27, 10.05 A. M. Chimney fire at No. 30 Washington street. No damage. Used one charge of Pony.

STILL. Friday, March 27, 3.10 P. M. Chimney fire at No. 62 Concord street. No damage. Used one charge of Pony.

STILL. Wednesday, April 1, 12.19 P. M. Chimney fire in Webster block, 3 Winter Place. No damage. Used one charge of Pony.

STILL. Wednesday, April 1, 2.13 P. M. Chimney fire in Webster block, 3 Winter Place. No damage. Used one charge of Pony and garden hose.

STILL. Friday, April 10, 1.20 P. M. Burning grass on North River road and south of Webster street. Caught from sparks from engine. Responded to by members of Engine and Ladder No. 5, with Hose carriage. No damage.

Box 15. Wednesday, April 15, 3.49 P. M. Stable in rear of No. 502 Chestnut street, owned by Mrs. E. A. Kimball, and occupied by Charles W. Shirley. Caused by



match thrown on roof from adjoining building. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$800; damage, \$3.93; insurance, \$500; insurance paid, \$3.93.

STILL. Thursday, April 16, 9 A. M. Brush fire on Bald Hill road, near the residence of F. C. Lougee. Responded with a detail of men. No damage.

STILL. Thursday, April 16, 3.20 P. M. Brush fire on Rockland avenue, near residence of U. A. Caswell. Responded with detail of men from Engine No. 2.

STILL. Monday, April 20, 12.48 P. M. Chimney fire in cottage at No. 322 Central street, owned and occupied by Mrs. J. S. Bacheler. No damage. Used two charges of Pony.

STILL. Saturday, April 25, 9.23 A. M. Chimney fire at No. 403 Pine street, owned and occupied by Thomas Golley. No damage.

STILL. Sunday, April 26, 1.20 P. M. Brush fire on the hill south end of Beech street. Responded with thirteen men.

Box 513. Wednesday, April 29, 10.55 A. M. Brush fire on Bedford road. No damage. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6.

STILL. Friday, May 1, 1.12 P. M. Brush fire on Nutt road, opposite fair grounds. No damage. Responded with detail of men.

STILL. Thursday, May 7, 5.52 A. M. Chimney fire rear No. 4 Pearl street. No damage. Used one charge of Pony.

Box 7. Friday, May 8, 9.03 A. M. Blacksmith shop at No. 195 Manchester street, owned by Levi Dodge, and occupied by O. P. Smith. Fire caught on roof from sparks from chimney. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Friday, May 8, 7.30 P. M. Brush fire on North Union street, near Charles S. Kidder's residence. Delegation from Engine and Ladder No. 5 responded.

Box 21. Tuesday, May 12, 7.25 P. M. Three-story wooden tenement block at No. 253 Chestnut street, owned by John Sweeney, and occupied by John Hughes, over whose tenement the fire originated. Cause, "rats and matches." Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$8,000; damage, \$130; insurance, \$7,000; insurance paid, \$100. Value of contents, \$400; damage, \$12; no insurance.

Box 315. Wednesday, May 13, 4.50 P. M. Brush fire on wood lot on Dunbarton road, owned by Will H. Colby, the cord-wood on same belonging to Napoleon Bouchard. Box pulled by citizen. Companies responding: Engines 5, 6, Chemical, Truck 5. Wood valued at \$360; loss, \$240; insurance, \$573.

Box 4. Thursday, May 14, 5.42 P. M. Fire was discovered in wood-yard of Joseph R. Dufresne, rear of No. 62 Lake avenue. The buildings were owned by Jeremiah Horan. The brick stable east, owned and occupied by W. E. Prescott, and the cottage west, owned by Plumer heirs, and leased by George W. Hamlin, were damaged by fire. Cause, unknown. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3. Buildings of J. Horan valued at \$2,000; damage, \$60; insurance, \$1,600; insurance paid, \$60. Building of Plumer heirs valued at \$500; damage, \$125; insurance, \$400; insurance paid, \$125. Joseph Dufresne, value, \$400; loss, \$200; no insurance. Building of W. E. Prescott valued at \$6,000; damage, \$48.19; insurance, \$2,000; insurance paid, \$48.19.

STILL. Saturday, May 16, 11.50 P. M. Brush fire on Bald Hill road and Londonderry turnpike, near residence of



Charles Foster and others. Detail of men responded. Fire was out on their arrival.

Box 31. Sunday, May 17, 6.05 A. M. Chimney fire at No. 26 Hollis street. No damage. Used two charges of Pony and garden hose. Box pulled by citizen. Companies responding: Engines 1, 6, Chemical, Hose 1, Trucks 1, 5.

STILL. Sunday, May 17, 3.25 P. M. Brush fire on Boynton street, on land owned by Kennard heirs. Engine Co. No. 2 responded with hose wagon.

Box 82. Monday, May 18, 8.48 A. M. Wood-yard of Joseph Dubois, at rear No. 26 Bridge street. Slight fire in pile of kindling-wood, started from some unknown cause. Extinguished with a few pails of water before arrival of department. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, Trucks 1, 5.

STILL. Monday, May 18, 9.40 A. M. Forest fire on Londonderry turnpike and Bald Hill road. Several houses being in danger, took detail of men.

Box 2-2-2. Monday, May 18, 10.15 A. M. Forest fire on Hooksett road, near Hooksett line. Engine No. 5 and detail of men responded, thus saving several houses in that vicinity.

Box 71. Monday, May 18, 6.57 P. M. Chimney fire at No. 340 Cedar back street, in house occupied by David Beliseau. No damage. Used two charges of Pony and one tank of Chemical. Box pulled by a small boy. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 3.

STILL. Monday, May 18, 7.44 P. M. The above Hooksett road fire had made headway toward North Union street, so as to endanger the house of John H. Stone on Arah street. Engine No. 5 with detail of men responded.

Box 54. Wednesday, May 20, 1.25 A. M. Two-and-a-

half-story wooden house, corner of Bedford and River road, owned by Mr. Woodbury, and occupied by Andrew Brember. Cause of fire unknown. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building, \$3,200; damage, \$113.61; insurance, \$2,750; insurance paid, \$113.61. Value of contents, \$800; damage, \$100; insurance, \$500; insurance paid, \$75.

Box 7. Thursday, May 21, 2.54 A. M. Wholesale liquor store of Quirin & Duhaime, No. 85 Manchester street. Cigar stub in sawdust. Extinguished with pail of water before arrival of department. No damage. Box pulled by officer. Companies responding: Engines 1, 3, Chemical, Hose 1, Truck 1.

STILL. Thursday, May 21, 12.14 P. M. Chimney fire at No. 10 Clark avenue, Pearl street. No damage. Used Pony.

Box 53. Friday, May 22, 8.50 P. M. Planing-mill at No. 168 South-Main street, owned and occupied by A. C. Wallace. Fire was first discovered in planing-mill, and spread to dry-house adjoining. Cause unknown. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of buildings, \$1,300; damage, \$750; insurance, \$400; insurance paid, \$400. Value of contents, \$2,500; damage, \$400; insurance, \$300; insurance paid, \$300.

STILL. Sunday, May 24, 5.20 P. M. Cottage house, at No. 80 Dover street, owned by Samuel McElroy, and occupied by Mrs. Francis. Slight fire under doorstep, caused by cigar stub. Extinguished by member of Engine Co. No. 2 with Pony. Damage slight.

Box 72. Wednesday, May 27, 8.45 P. M. Two-story house at No. 301 East Spruce street. Curtain caught fire. Extinguished before arrival of department. Damage slight. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

STILL. Thursday, May 28, 2.40 A. M. Electric light wire on McGregor bridge set fire to planking. Used Pony. Damage slight.

STILL. Saturday, May 30, 12.28 P. M. Chimney fire in brick block, No. 1307 Elm street. Used one charge of Pony. No damage.

STILL. Monday, June 1, 7.25 P. M. Lamp explosion in five-tenement block, owned by H. M. Moody, No. 243 East High street, occupied by Peter Shannon. Damage slight. Members of Hose No. 2 responded.

Box 5. Friday, June 5, 7.36 A. M. Two-story wooden block, No. 49 Central street, owned by Philip Riley, and occupied by Connor Bros. as plumber's shop. A match accidentally thrown among some oakum caused slight fire, doing but little injury to building, and none to contents. Box pulled by Officer Sullivan. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$12,000; damage, \$25; insurance, \$9,000; insurance paid, \$20.

STILL. Saturday, June 6, 6 P. M. Overturning of an oil-stove created considerable smoke in the house of Joseph Frahen, No. 508 Dubuque street. No damage. Members of Engine No. 6 responded.

Box 21. Wednesday, June 10, 7.14 P. M. Chimney fire at No. 312 Pine street, in three-story wooden block, owned by Dr. Wheat, and occupied by several families. No damage. Used one tank of Chemical and one charge of Pony. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3.

STILL. Wednesday, June 10, 10.20 P. M. Same chimney as above. No damage. Members of Chemical responded. Used one charge of Pony.

STILL. Thursday, June 11, 8.05 P. M. Chimney fire at No. 311 Pine street, in block owned by ——— Littlefield. No damage. Members of Chemical responded.

STILL. Friday, June 12, 6.10 P. M. Chimney fire at No. 27 Kidder street. No damage. Responded to by members of Chemical. Used Pony.

Box 51. Saturday, June 13, 11.20 A. M. Two-story wooden house at No. 183 Turner street, owned by Merrill Farmer, and occupied by Mrs. McCarty and others. Fire caught on shingles and burned through roof, doing but little damage. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building, \$2,500; damage, \$55; insurance, \$2,000; insurance paid, \$55.

Box 212. Thursday, June 18, 12.12 A. M. Unoccupied cottage house at No. 352 Taylor street (nearly finished), owned by Melvin Badger. Fire originated from spontaneous combustion of oily rags used by painters in finishing. Box pulled by Leroy M. Streeter. Companies responding: Engines 1, 3, Chemical, Hose 2, Truck 3. Value of building, \$2,500; damage, \$750; insurance, \$1,500; insurance paid, \$750.

Box 24. Thursday, June 18, 5.26 A. M. Two-and-a-half-story wooden house on Canton street, owned and occupied by H. M. Platts. Fire originated in cellar among shavings (from spontaneous combustion), where it was wholly confined. Box pulled by George H. Wheeler. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3. Value of building, \$8,000; damage, \$900; insurance, \$6,000; insurance paid, \$900. Value of contents, \$2,000; damage, \$200; insurance, \$500; insurance paid, \$130.

STILL. Friday, June 19, 2.45 A. M. Five-story brick building at No. 937 Elm street. Waste paper in ash-can. No damage. Members of Chemical responded.

STILL. Tuesday, June 23, 11.50 P. M. Brush fire in Riddle's Grove, caused by boys. No damage. Members of Engine No. 2 responded with hose carriage. Used two charges of Pony.

Box 71. Wednesday, June 24, 3.43 P. M. Two-and-a-half-story wooden house at No. 162 Spruce street, owned and occupied by Patrick Conway. Sparks from stove ignited wood-box. No damage. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

STILL. Monday, June 28, 9.33 P. M. Tenement block on South-Main street, near North Weare Railroad, owned by D. B. and George S. Eastman, and occupied by several families. Smoke was seen issuing from all parts of the building, but on examination no fire was discovered. Members of Engine No. 2 responded.

Box 45. Thursday, July 2, 7.05 A. M. Shavings in boiler-room of J. W. Mears, Canal street, east of freight depot. Extinguished before arrival of department. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, Trucks 1, 3.

Box 7. Friday, July 3, 12.45 A. M. Woodshed, rear of No. 71 Manchester street, owned by Lizzie Dailey. Box pulled by Officer Badger. Cause unknown. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$350; damage, \$65; insurance, \$300; insurance paid, \$65.

STILL. Saturday, July 4, 10.08 P. M. Two-story wooden building, corner of Belmont and Merrimack streets, owned and occupied by W. H. Carpenter & Co. The fire originated in the grocery store in the basement. Cause unknown. Members of Engine and Ladder No. 3 responded with hose carriage. Used one charge of Pony. Value of buildings, \$3,000; damage, \$115; insurance, \$2,000; insurance paid, \$95. Value of contents, \$300; damage, \$85; insurance, \$700; insurance paid, \$85.

STILL. Sunday, July 5, 12.45 A. M. Fireworks on roof of house belonging to Whitford heirs, on East Merrimack street, set fire to shingles. Members of Engine and Lad-

der No. 3 responded. No damage. Used one charge of Pony.

Box 81. Sunday, July 5, 2.58 A. M. The Kennard, a six-story stone building at No. 1008 Elm street, owned by Kennard heirs (leased by N. H. Trust Co.). Fire started in a closet on fifth floor, from cross with electric light and telephone wires. The fire was mostly confined to the closet, and the office of E. H. Tardivel, adjoining. Box pulled by Officer Floden. Companies responding, Engines 1, 4, Chemical, Hose 1, Truck 1. Value of building, \$300,000; damage, \$377.84; insurance, \$125,000; insurance paid, 377.84. Value of Tardivel's contents, \$600; damage, \$225; insurance, \$500; insurance paid, 122.50. Other loss, \$20; no insurance.

Box 4. Wednesday, July 8, 7.30 A. M. Slight fire in bed in Connor's block, Hotel Gagnon, No. 595 Elm street, was extinguished before the arrival of department. Cause unknown. No damage. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3.

STILL. Thursday, July 9, 2.10 P. M. Grass fire on land owned by Mrs. George A. Abbott, corner of Taylor street and Portsmouth Railroad. No damage. Members of Engine and Ladder No. 3 responded.

Box 313. Thursday, July 9, 10.32 P. M. Four-story wooden block at No. 525 North Main-street, McGregorville, owned by Francis C. Miville, and occupied by Joseph H. Wilson, Jr., as hardware store. Fire originated from some unknown cause, in the basement, where it was mostly confined. Box pulled by ——— Dean. Companies responding: Engines 1, 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$12,000; damage, \$722; insurance, \$12,000; insurance paid, \$722. Value of contents, \$5,000; damage, \$2,464; insurance, \$4,000; insurance paid, \$2,464.

Box 17. Friday, July 10, 8.51 A. M. Oil-stove in tene-



ment at No. 293 Amherst street, occupied by Zotique Berlinguette, tipped over, doing no damage, and was extinguished before arrival of department. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

Box 21. Saturday, July 11, 7.22 P. M. Four-story wooden tenement-block at No. 225 Manchester street. Joseph Massea, who kept a store in basement, was boiling syrup on oil-stove. Stove tipped over, causing considerable smoke, but doing no damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3.

STILL. Sunday, July 12, 11.40 A. M. Unadjusted Thermostat at Kimball Bros.' shoe shop, corner of Cypress and Massabesic streets, caused false alarm. No damage. Responded to by Hose wagon from Engine and Ladder No. 3.

Box 4. Sunday, July 12, 2.11 P. M. Dwelling-house at No. 67 Lake avenue, owned and occupied by James Byrnes.. Sparks from chimney burned hole through the roof. Box pulled by F. Tibedeau. Companies responding: Engines 3, 4, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$700; damage, \$1.50; insurance, \$600; insurance paid, \$1.50.

Box 15. Wednesday, July 22, 10.04 A. M. A small pile of straw bedding for horses, in stable of O. I. Bloomey, rear of No. 80 Bridge street, owned by David H. Young, caught, probably from a match from boys playing. No damage. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 3. Monday, July 27, 6.24 P. M. Wooden foundry building on South Elm street, near M. & L. R. R., owned by Hartwell Foundry Co. Sparks from locomotive set fire to some sleepers in rear, damaging building slightly without injury to contents. Box pulled by A. B. Dickey.

Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$1,000; damage, \$8; insurance, \$600; insurance paid, \$8.

Box 313. Saturday, August 1, 8.27 P. M. Three-story wooden block, No. 481 North-Main street, owned by Robert Leggett, and occupied by several families. The fire originated in the attic, caused by carelessly throwing a match into a closet. Extinguished with pails of water and Pony. Box pulled by citizen. Companies responding: Engines 2, 4, 6, Chemical, Hose 1, Truck 6. Value of building, \$8,000; damage, \$33; insurance, \$5,500; insurance paid, \$33.

STILL. Monday, August 3, 1.20 P. M. Four-story brick block at No. 1214 Elm street, owned by Smyth & Carpenter. Smoke in room caused a little scare. No fire found. Members of Chemical responded.

STILL. Sunday, August 16, 10.55 A. M. Chimney fire at Mrs. B. P. Cilley's, No. 236 Amherst street. Members of Chemical responded. No damage.

Box 15. Tuesday, August 18, 10.58 A. M. Three-story wooden tenement-block at No. 8 Clark avenue, owned by heirs of Joseph B. Clark, and occupied by several families. Fire was found in a bed in tenement occupied by Augustine Croteau. Cause unknown. Extinguished with Chemical. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. No damage to building. Value of contents of room, \$15; damage, \$5; no insurance.

STILL. Tuesday, August 18, 7.45 P. M. Chimney fire in brick block at No. 49 West Merrimack street, occupied by Kenney & Thompson as boarding-house. Chemical engine responded. Used one tank and one charge of Pony. No damage.

STILL. Saturday, August 22, 7.50 P. M. Burning sulphur in an unoccupied tenement at No. 209 Hanover



street, owned by John Hickey. Chemical engine responded. No damage.

STILL. Sunday, August 23, 6.30 P. M. Chimney in tenement-block at No. 521 North Main-street, owned by F. C. Miville, and occupied by A. T. Beaumier. No damage. Used one charge of Pony. Members of Engine and Ladder No. 6 responded.

Box 16. Saturday, August 29, 12.46 A. M. Two-story wooden house at No. 126 Lowell street, owned by the Calumet Club, and occupied as a club-house. Cause, spontaneous combustion. Box pulled by citizen. Companies responding: Engines 1, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of building, \$18,000; damage, \$100; insurance, \$18,000; insurance paid, \$100. Value of contents, \$7,000; blanket policy.

Box 24. Saturday, August 29, 4.05 P. M. At No. 403 Belmont street, house owned by John McCleary and occupied by J. F. Stevens; kettle of fat boiled over. Box pulled by citizen. No damage. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 3.

STILL. Thursday, September 10, 5.15 P. M. Fire among the rubbish in cellar at No. 347 East Spruce street, in house owned by ——— Magoon, and occupied by K. Flanders. Members of Engine and Ladder No. 3 responded. No damage.

STILL. Saturday, September 12, 11.15 A. M. Boiling over of a kettle of tar used in repairing A. N. Clapp's building, corner Main and Granite streets. No damage. Members of Engine No. 2 responded.

Box 315. Wednesday, September 16, 7.34 P. M. Woodshed connected with the Amoskeag schoolhouse. Cause unknown. Box pulled by citizen. Companies responding: Engines 5, 6, Chemical, Hose 5 (Independent), Truck 6. Damage about \$10; no insurance.

Box 8. Saturday, September 19, 10.11 P. M. Three-

story brick-front building at No. 1203 Elm street, owned by Kimball heirs, and occupied by Mrs. Odile Caron & Co. as furniture store. Cause unknown. Box pulled by citizen. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. Value of contents, \$3,500; damage, \$60; insurance, \$2,000; insurance paid, \$60.

Box 81. Tuesday, September 22, 11.07 p. m. Four-story brick block at No. 986 Elm street, owned by Kimball, Rowell, and others, and occupied by M. Jennie Lee (up-stairs) as boarding-house. Fire started in a bed in an unoccupied room, from some unknown cause. Box pulled by Officer Floden. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1. Value of contents, \$900; damage, \$45; insurance, \$600; insurance paid, \$45.

STILL. Wednesday, October 7, 9.45 a. m. Electric light wires crossed with telephone wires at George A. Leighton's, corner of Concord and Beech streets. Members of Chemical responded.

Box 25. Friday, October 9, 7.21 p. m. False alarm. Companies responding: Engines 1, 3, Chemical, Hose 1, 2, Truck 3.

Box 23. Monday, October 12, 7.54 p. m. False alarm. Companies responding, Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

STILL. Monday, October 12, 8 p. m. The town of Epiping asked for assistance. Engine 4 and hose wagon with twenty men responded.

Box 8. Wednesday, October 14, 7.21 p. m. Chimney fire at rear of No. 24 Orange street. Used three charges of Chemical. Box pulled by Officer Connor. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5. No damage.

Box 81. Friday, October 16, 3.48 a. m. One-story wooden building, rear of No. 39 Amherst street, owned by estate of John D. Bean, and occupied by J. H. Wiggin &

Co. as bake-shop. Fire caused by hot ashes against side of building. Box pulled by Officer Bourassau. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1. Value of building, \$750; damage, \$6.25; insurance, \$500; insurance paid, \$6.25.

Box 213. Saturday, October 17, 7.42 P. M. Two-story dwelling on Nutt road, owned by Timothy McKenna, and occupied by Louis Alpert. Hanging-lamp fell from ceiling, doing slight damage to contents. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 2, 3, Truck 3. Value of building, \$2,000; damage, \$100; insurance, \$2,000; insurance paid, \$100. Value of contents, \$500; damage, \$5; insurance, \$500; insurance paid, \$2.50.

Box 42. Sunday, October 18, 8.01 A. M. The old passenger station of the Concord Railroad, used as a car-house and freight depot, corner of Bedford and Granite streets. Cause of fire, overheated stove in office. Box pulled by watchman at Manchester Mills. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$8,000; damage, \$2,000; insurance, \$6,500; insurance paid, \$1,900. Value of contents, \$2,000; damage, \$135; insurance, \$1,500; insurance paid, \$135.

Box 511. Sunday, October 18, 2 P. M. Brick cottage at No. 201 Douglas street, owned by William Thompson, and occupied by Valentine Faust. Cause, fumigating house after diphtheria. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Truck 6. Value of building, \$1,000; damage, \$8.35; insurance, \$1,000; insurance paid, \$8.35. Value of contents, \$600; damage, \$35; insurance, \$500; insurance paid, \$35.

Box 21. Sunday, October 18, 6 P. M. Three-story block at corner of Chestnut and Central streets, owned by John Sweeney. Fire originated in basement at No. 95

Central street, occupied by E. Beausejour as grocery store, from some unknown cause. No damage to building. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of contents, \$3,600; damage, \$223.71; insurance, \$1,500; insurance paid, \$223.71.

Box 5. Wednesday, October 21, 12.30 A. M. Five-story brick building at No. 32 Merrimack street, the Manchester House, owned by Weston, Varick, and Elliott, and occupied as hotel by A. M. Winchester. Fire started in basement in boiler-room, where it was mostly confined. Cause unknown. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$60,000; damage, \$525; insurance, \$32,500; insurance paid, \$525. Value of contents, \$15,000; damage, \$100; insurance, \$9,000; insurance paid, \$100. A claim of \$300 damage from smoke is claimed on furniture in the Hotel Windsor connected.

Box 31. Thursday, October 22, 8.37 P. M. Chimney fire at No. 14 Arkwright street, owned by Amoskeag Manufacturing Co., and occupied by George Gildard. No damage. Used two charges of Pony. Companies responding: Engines 4, 6, Chemical, Hose 1, Trucks 1, 5.

STILL. Friday, October 23, 9.30 P. M. Chimney fire at New City Hotel, No. 1128 Elm street. No damage. Used two charges of Pony.

STILL. Saturday, October 24, 9.20 P. M. Chimney fire in tenement house of John Foster at No. 320 Douglas street. Members of Engine No. 2 responded. Used Pony.

STILL. Monday, October 26, 3.02 P. M. Chimney fire at Dr. J. L. Golden's, No. 386 Merrimack street. Used one charge of Pony. No damage. Members of Engine No. 3 responded.

STILL. Wednesday, October 28, 9.20 A. M. Chimney

fire at No. 50 Birch street. Used two charges of Pony. No damage.

Box 7. Thursday, October 29, 2.02 A. M. One-story wooden building at No. 99 Hanover street, owned by Hamilton Melendy, and occupied by M. Padovani as a fruit store. The fire originated from an overheated stove. Extinguished by Chemical. Box pulled by Officer Bourassau. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$2,000; damage, \$55; insurance, \$2,000; insurance paid, \$55. Value of contents, \$1,000; damage, \$300; insurance, \$1,000; insurance paid, \$300.

Box 71. Friday, October 30, 4.21 P. M. Small barn in rear of No. 52 Cedar street, owned by Mark Menton, and occupied by A. Monette. Cause, matches by boys. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3. Value of building, \$50; damage, \$20; no insurance. Value of contents, \$20; damage, \$5; no insurance.

Box 261. Tuesday, November 3, 3.59 P. M. Two-story cottage house at No. 341 Orange street, owned and occupied by Job Grenier. Fire originated under the roof from some unknown cause, and damage by fire was all above the second floor. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Trucks 3, 5. Value of building, \$3,200; damage, \$375; insurance, \$2,000; insurance paid, \$375. Value of contents, \$800; damage, \$125; insurance, \$500; insurance paid, \$125.

STILL. Thursday, November 5, 3.15 P. M. Chimney fire at No. 415 Lake avenue, in house owned by J. A. Folsom, and occupied by Fred Follansbee. No damage. Members of Engine and Ladder No. 3 responded.

Box 4. Saturday, November 14, 9.18 A. M. Three-story wooden tenement-block at Nos. 70-72 Spruce street, owned by William G. Cotter, and occupied by him and

several others. Fire started in barn attached to rear end of building, probably from carelessness of boys. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3. Value of building, \$6,000; damage, \$100; insurance, \$2,500; insurance paid, \$43.75. Value of contents, \$1,500; damage, \$25; no insurance.

Box 4. Saturday, November 14, 2.28 P. M. One-story brick storehouse, Elm street, owned by Head & Dowst Co., and occupied by Patrick Harrington. Falling stove-funnel filled room with smoke. No damage. Box pulled by Officer Rollins. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3.

Box 324. Sunday, November 15, 10.46 A. M. Small hen-pen in rear of barn of John B. Favreau, No. 22 Laval street, McGregorville. Cause, hot ashes. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Value of building, \$150; damage, \$30; no insurance.

Box 31. Sunday, November 15, 7.53 P. M. False alarm. Companies responding: Engines 4, 6, Chemical, Hose 1, Trucks 1, 5.

Box 81. Monday, November 16, 8.41 P. M. During a torch-light procession fireworks set fire to the awning of Temple & Farrington Co.'s bookstore. Damage slight. Box pulled by citizen. Companies responding: Engines 1, 4, Chemical, Hose 1, Truck 1.

STILL. Monday, November 16, 10.42 P. M. Awning at Clark Bros.' Bee-Hive caught from fireworks. Damage slight. Chemical responded.

Box 23. Tuesday, November 17, 9.02 P. M. False alarm. Companies responding: Engines 3, 4, Chemical, Hose 1, 2, Truck 3.

STILL. Friday, November 20, 11.35 A. M. Chimney fire in Shannahan block at No. 36 Lake avenue. No damage. Used Pony.



STILL. Friday, November 20, 12.55 P. M. Chimney fire at No. 532 Chestnut street. No damage. Used Pony.

STILL. Saturday, November 21, 6 P. M. Sparks from Roman candle set fire to clothing in chamber of house owned and occupied by John Gossler, at No. 402 Rimmon street. Damage slight. Members of Engine and Ladder No. 6 responded. Used one charge of Pony.

Box 4. Thursday, November 26, 2.54 P. M. Three-story wooden block at Nos. 70-72 Spruce street, owned by William G. Cotter, and occupied by him and several others. Rubbish under cellar stairs of rear tenement caught fire from some unknown cause. Extinguished with Chemical. No damage. Box pulled by citizen. Companies responding: Engines 1, 3, Chemical, Hose 1, 3, Trucks 1, 3.

Box 45. Saturday, November 28, 5.20 A. M. Boiler-room connected with three-story brick building of Leighton Machine Co., on Canal street, owned by Mrs. Antoinette L. Hill, and occupied by Leighton Machine Co., John W. Mears' Loom Harness, and Manchester Nickel Plating Co. Box pulled by citizen. Companies responding: Engines 1, 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$20,000; damage, \$158.50; insurance, \$11,000; insurance paid, \$158.50. Damage to contents, \$15; fully insured.

STILL. Sunday, November 29, 10.35 A. M. Chimney fire at No. 59 Pearl street. Members of Chemical responded. No damage.

STILL. Wednesday, December 2, 9.55 P. M. Chimney fire at No. 38 Lowell street, McCabe's block. Used one charge of Pony.

STILL. Thursday, December 3, 9.07 A. M. Chimney fire at No. 10 Washington block, Pearl street, owned by Charles C. Hayes. Used one charge of Pony.

Box 6. Saturday, December 5, 10.58 P. M. Three-

story brick block on Hanover street, owned by Bartlett, Gay & Wells, and occupied by The John B. Clarke Co. for printing. The fire started in room No. 8, occupied by George F. Willey, publisher of "Willey's Book of Nutfield," where was stored nearly the entire edition of the work. Cause unknown. Box pulled by officer. Companies responding: Engines 1, 4, Chemical, Hose 1, 2, Trucks 1, 3. Value of building, \$50,000; damage, \$210; insurance, \$21,500; insurance paid, \$210. Value of contents (Willey's), \$10,000; damage, \$3,000; insurance, \$3,000; insurance paid, \$1,800. Value of contents of The John B. Clarke Co., \$40,000; damage, \$26.83; insurance, \$35,000; insurance paid, \$26.83.

STILL. Tuesday, December 8, 5.40 A. M. Chimney fire at No. 59 Pearl street. No damage. Used one charge of Pony.

Box 82. Wednesday, December 9, 10.52 P. M. False alarm. Companies responding: Engines 1, 4, 5, Chemical, Hose 1, 2, Trucks 1, 5.

Box 52. Sunday, December 13, 4.26 P. M. An overabundance of smoke in the old flour mill, corner of Main street and the North Weare Railroad, caused an unnecessary alarm. No damage. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6.

STILL. Thursday, December 17, 12.20 A. M. Chimney fire at No. 15 Pearl street. No damage. Used one charge of Pony.

STILL. Friday, December 18, 1.40 P. M. Chimney fire in block owned by Michael Connor, No. 571 Elm street. No damage. Used two charges of Pony.

Box 21. Sunday, December 20, 1.20 P. M. Two-and-a-half-story wooden building, owned by Kate Cullity, and occupied by Patrick Barry and Edward Douval, at No. 115 Central street. The fire started from some unknown cause in a blind attic in south end of building, where it



was wholly confined. Companies responding: Engines 1, 3, Chemical, Hose 1, Trucks 1, 3. Value of building, \$2,000; damage, \$150; insurance, \$1,000; insurance paid, \$150. Value of contents, \$300; damage, \$15; no insurance.

STILL. Wednesday, December 23, 4.05 P. M. Chimney fire in John Cashman's block, No. 34 Church street. No damage. Used two charges of Pony.

STILL. Thursday, December 24, 6.10 A. M. Chimney fire in Washington block, No. 26 Pearl street. No damage. Used one charge of Pony.

STILL. Thursday, December 24, 9.58 A. M. Chimney fire in block owned by George W. Hamlin, rear of No. 46 Lake avenue. No damage. Used one charge of Pony.

STILL. Friday, December 25, 7.40 A. M. Chimney fire in Union block, No. 22 Concord street, owned by George B. and Henry Chandler. No damage. Used one charge of Pony.

STILL. Sunday, December 27, 1.02 P. M. Chimney fire in three-story wooden block at No. 25 Laurel street, owned by Nason Hall, and occupied by Charles Brooks. Chemical engine responded. No damage. Used two charges of Pony.

STILL. Monday, December 28, 9.30 A. M. Tenement-block owned by John A. Riddle, rear of No. 25 Amherst street. Plumbers thawing water-pipes set fire to straw packing. No damage. Used one charge of Pony.

Box 21. Tuesday, December 29, 12.12 P. M. Three-story wooden block at No. 236 Chestnut street, owned by Irene A. and Arthur F. Wheat, and occupied by Mrs. Mary Linnehan. Fire originated in clothes-closet from some unknown cause, doing but little damage. Box pulled by citizen. Companies responding: Engines 3, 4, Chemical, Hose 1, Trucks 1, 3. Value of building, \$12,000; damage, \$36.95; insurance, \$3,000; insurance paid,

\$36.95. Value of contents, \$250; damage, \$25; no insurance.

Box 73. Tuesday, December 29, 12.31 P. M. Two-and-a-half-story house. No. 177 Spruce street, owned and occupied by John Maloney. An overcoat hanging in hall took fire from a smoker's pipe. No damage to building. Box pulled by Stephen Maloney. This fire occurring before companies responding to preceding one had returned to quarters, all "second run" apparatus responded,—Engines 1, 2, 3, Chemical, Hose 1, 2, 3, Trucks 1, 3, 5. Damage (to coat only), \$8; no insurance.

Box 71. Tuesday, December 29, 11.05 P. M. False alarm. Companies responding: Engines 3, 4, Chemical, Hose 1, Truck 3.

Box 53. Wednesday, December 30, 7.13 P. M. This alarm was for a fire in Bedford, for barn belonging to the heirs of George Foster on River road, about three miles from city hall. Box pulled by citizen. Companies responding: Engines 2, 6, Chemical, Hose 1, Truck 6. Lieut. Thomas E. Gorman, of Truck 6, was thrown from the truck at Clapp's Corner, and injured so that he died almost instantly.

Number of bell alarms.....	86
Number of still alarms.....	87

Total.....	163
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Value of property endangered.....	\$774,885.00
Insurance carried on same.....	420,750.00
Damage to property for 1896.....	\$23,959.25
Insurance paid on same.....	21,027.05

Net loss above insurance paid.....	\$2,932.20
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The several companies have responded to alarms as follows:

Engine No. 1—45 times.	Hose No. 1—71 times.
Engine No. 2—19 times.	Hose No. 2—26 times.
Engine No. 3—42 times.	Hose No. 3—11 times.
Engine No. 4—47 times.	Truck No. 1—49 times.
Engine No. 5—19 times.	Truck No. 3—44 times.
Engine No. 6—21 times.	Truck No. 5—20 times.
Chemical—91 times.	Truck No. 6—17 times.

Owing to Granite bridge being gone, there were eleven alarms that Engine No. 2 did not respond to, which they otherwise would.

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### Number and Location of Fire Alarm Boxes and Keys.

A KEY IS ATTACHED TO EACH BOX, and can be had by breaking the glass.

No. 3. Blood's lower shop. Keys at offices of gas-works, county jail, Manchester Coal and Ice Co.'s sheds, and Charles H. Hutchinson's shop.

No. 4. Corner Spruce and Elm streets. Keys at Hotel Oxford, L. B. Bodwell & Co.'s, Palmer & Garmon's, Street Railway stables, and office of Blodgett & Young's block.

No. 5. Corner of Merrimack and Elm streets. Keys at Tebbetts & Soule's and Currier's drugstores, and Manchester House.

No. 6. City Hall. Keys at Holland's and Thurston's drugstores, J. A. Riddle's office, and residence of J. L. Brock, 21 Amoskeag Corporation.

No. 7. Police station, corner of Manchester and Chestnut streets. Keys at chief of police's office and with all police officers.

No. 8. Corner of Elm and Hollis streets. Keys at Edward C. Smith's and Colby's drugstores, and Partridge Bros.' grain store.

No. 9. Corner of Elm and Webster streets. Keys at residences of Mrs. H. D. Corliss, J. Freeman Clough, Dr. E. Fritz, and station of Engine No. 5.

No. 12. Corner of North and Pine streets. Keys at residences of John Mooar, George Emerson, Walter A. Green, and O. D. Knox.

No. 13. Corner of Brook and Chestnut streets. Keys at residences of Welcome Jencks and Mrs. Lewis Simons, No. 1 Senter's block, and Cate's grocery store.

No. 14. Corner of Prospect and Union streets. Keys at residences of Mrs. W. Ireland, Mrs. George W. Riddle, D. J. Adams, E. L. Bryant, A. H. Olzendam, and Mrs. Thomas Morgan.

No. 15. Corner of Pearl and Chestnut streets. Keys at residences of William B. Corey, Henry W. Shannon, and J. Fred Chalker.

No. 16. Corner of Lowell and Union streets. Keys at residences of Rt. Rev. Bishop Bradley and R. R. Hassam.

No. 17. Corner of Amherst and Beech streets. Keys at residences of Mrs. H. P. Watts and Michael Connor.

No. 18. Corner of Manchester and Maple streets. Keys at residences of the late H. E. Stevens, A. N. Baker, and Mrs. William Perkins.

No. 21. Corner of Merrimack and Pine streets. Keys at A. D. Smith's drugstore, J. McKeon's grocery store, A. L. Walker's office, and residence of James F. Gillis.

No. 23. Corner of Central and Beech streets. Keys at residences of Eben T. James and Mrs. Josiah Stevens.

No. 24. Engine and Ladder Co. No. 3 house, corner of Massabesic street and Lake avenue. Keys at residence of D. M. Goodwin and station of Engine and Ladder No. 3.

No. 25. Corner of Hanover and Ashland streets. Keys

at residences of George F. Lincoln, A. D. Gooden, the late Horace Stearns, the late Horace Gordon, and James R. Straw.

No. 26. Corner of Bridge and Russell streets. Keys at McCrillis's carriage shop, John N. Foss's stable, and residence of John N. Chase.

No. 27. Corner of Belmont and Amherst streets. Keys at residences of H. M. Tarbell, the late A. G. Fairbanks, E. S. Fletcher, William Carr, and George H. Hubbard.

No. 28. (To be placed on Merrimack, near Beacon.)

No. 31. Corner of Canal and Hollis streets, Blood's shop. Keys at office, Amory Mills, Langdon Mills watchrooms.

No. 32. Langdon Mills block, corner of Canal and Brook streets. Keys at the Amoskeag Paper Company's mill, Langdon watchroom, and Electric Light station.

No. 34. Jefferson Mill. Keys at watchroom and pumping station.

No. 35. Stark Mills. Keys at watchroom.

No. 36. Amory Mills. Keys at watchroom.

No. 39. Hillsborough county jail. Keys at office.

No. 41. Amoskeag Mills. Keys at watchroom.

No. 42. Manchester Mills. Keys at watchroom.

No. 43. Olzendam's Mill. Keys at watchroom.

No. 45. The S. C. Forsaith Co.'s shops. Keys at freight depot and S. C. Forsaith Co.'s office.

No. 51. Corner of Walker and Second streets. Keys at stores of F. Riedel and William Weber.

No. 52. Barr's brick block, West Manchester. Keys at Fradd & Co.'s and A. N. Clapp's stores, Merrimack House, and Engine No. 2 house.

No. 53. Wallace's steam mill. Keys at Wallace's office, I. R. Dewey's tenement block, and Ranno Harness Co.'s store.

No. 54. Corner of A and South Main streets. Keys at residences of Lord sisters, Neil Fullerton, and George W. Davis's store.

No. 56. Baldwin's bobbin shop. Keys at Baldwin's office and residences of J. C. Smith, E. P. Littlefield, and with watchman at works.

No. 57. (To be placed at Mast road near D street.)

No. 61. Corner of River road and Hancock street, Bakersville. Keys at Mary Stack's saloon, True W. Jones Co.'s brewery, store of John A. Kane, and Hose 3.

No. 62. Gerrish Wool & Leather Co.'s, River road. Keys at tannery, the Edwin Kennedy house, and Hose 3.

No. 71. Corner of Cedar and Pine streets. Keys at residences of T. Collins, Daniel Sheehan, Thomas J. Smith, Simon McCarthy, and J. J. Toomey.

No. 72. Corner of Lake avenue and Lincoln street. Keys at residences of the late Austin Jenkins, James Briggs, and Clarence D. Palmer.

No. 73. Corner of Beech and Cedar streets. Keys at residences of Rev. J. A. Chevalier and Timothy Carr.

No. 81. Central Fire Station, Vine street. Keys at all the engine rooms.

No. 82. Old City Hotel, corner Lowell and Church streets. Keys at Syndicate Furniture Co.'s, Lowell-street stable, Nichols's stable, and Eames Bros.' drug-store.

No. 112. Corner of Sagamore and Union streets. Keys at residences of W. T. Stevens, W. A. Clarkson, M. D. Johnson, Charles F. Chase, and William H. Drury.

No. 113. Corner of Oak and Prospect streets. Keys at residences of Mrs. William B. Abbott, W. N. Johnson, and E. M. Topliff.

No. 114. Corner of Pearl and Ash streets. Keys at residences of Mrs. A. P. Olzendam, G. A. Olzendam, W. S. Shannon, and John J. Bennett.



No. 115. Corner Gore and Ash streets. Keys at residences of James A. Rogers and Cyren Bixby.

No. 212. Shoeshop, Hallsville. Keys at the office of the shoe factory and residences of Charles C. Chase, G. W. Dearborn, Mrs. Milton A. Abbott, M. V. B. Garland, and Walter Cody's block.

No. 213. Sash and blind factory, South Beech street, junction of Portsmouth Railroad. Keys at offices of Austin, Flint & Day and Dana & Provost.

No. 214. Elliott silk mill, corner of Wilson and Valley streets. Keys at office and watchroom of mill.

No. 215. Hoyt & Co.'s shoeshop, corner of Lincoln and Silver streets. Keys at offices of shoeshop and Kimball Carriage Co. and residence of Mrs. A. B. Johnson.

No. 216. Jewett and Somerville streets. Keys at residences of G. H. Hill, 140 Jewett street, and W. B. Brown, 128 Jewett street.

No. 217. Corner Candia road and Massabesic street. Keys at residences of L. M. Streeter, William Gadbois, and Charles P. Still.

No. 261. Pearl-street grammar school. Keys at school room and residences of C. E. Rose, S. W. Bascom, and Charles W. Cheney, Jr.

No. 212. Corner of Putnam, Main, and McGregor streets. Keys at residences of James Spence (309 Main street), Thomas Bolton, gate No. 11 Mill.

No. 313. Corner of Amory and Main streets. Keys at residences of Allen Dean and Lawrence M. Connor, Bouthillier & Gingras's drugstore, Miville & Co.'s drugstore, gate of No. 11 mill, and station of Engine and Ladder No. 6.

No. 314. P. C. Cheney Co.'s paper mill. Keys at office and Riverside Hose house.

No. 315. Old Brick Store, 'Skeag. Keys at Flanders's store, Riverside Hose house, and D. L. Robinson's residence.

No. 321. Corner Beauport and Wayne streets. Keys at Holy Angels Convent, the Brothers' School, and residences of E. H. Doherty and Rev. Father Hevey.

No. 323. Corner of Putnam and Bartlett streets. Keys at Albert Oliver's store, P. J. Archambeault's bakery, and residence of Officer Lewis Clement.

No. 324. Amory and Laval streets. Key at residence of Desire Martin, No. 494 Amory street.

No. 511. Corner of Douglas and Green streets. Keys at residences of Amelia Davis, William A. Tufts, and James Kearns.

No. 513. Corner of Milford and Carroll streets. Keys at residences of J. W. Abell, James Ward, and Mrs. Elizabeth Ward.

Also, keys will be found in the hands of all regular police.

The true time will be given at precisely 12.30 P. M. from Charles A. Trefethen's jewelry store, and will be denoted by one stroke of the fire bells.

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### Telephone Calls.

Chemical Engine, Central station.....	64-3
Chief Engineer's office.....	64-3
Chief Engineer's residence.....	64-4
Assistant Engineer Whitney's residence.....	39-4
Assistant Engineer Whitney's office.....	73-3
Assistant Engineer Merrill's store and residence	212-3
Engine No. 2.....	64-2
Engine and Ladder No. 3.....	64-3
Engine and Ladder No. 5.....	64-6
Engine and Ladder No. 6.....	64-7
Hose No. 2.....	116-4
Hose No. 3.....	25-2



### Instructions to Key-holders and Citizens.

1. Upon the discovery of a fire, notice should be immediately communicated to the nearest alarm box, the keys to which are in the hands of all regular police, and generally of persons at the corner or nearest house.

2. Key-holders, upon the discovery of a fire, or positive information of a fire, will unlock the box, pull down the hook once as far as it will go (without jerking), and then let go. Shut the door, but do *not* try to remove the key, as it is locked in by a trap-lock, and can only be removed with a release-key, which is carried by each of the engineers, and they will, as soon as convenient, release and return it.

3. All persons giving fire alarms are requested to remain by the box a moment, and if no clicking is heard in the box, pull again; if you still hear no clicking, go to the next nearest box and give an alarm from that.

4. Never signal for a fire seen at a distance. Never touch the box except to give an alarm of fire. Give an alarm for no cause other than actual fire. **DON'T GIVE AN ALARM FOR A CHIMNEY FIRE.**

5. Never let the keys go out of your possession unless called for by the chief engineer. *If you change your residence or place of business, where the keys are kept, return the keys to the same office.*

6. Owners and occupants of buildings are requested to inform themselves of the location of alarm-boxes near their property; also all places where the keys are kept. Be sure the alarm is promptly and properly given.

7. Alarms will be sounded upon all the fire-bells in the city, and the number of the box will be given thus: Box 6, six blows,  $2\frac{1}{2}$  seconds apart, repeated three times. Box 212, two blows, pause of  $6\frac{1}{4}$  seconds, one blow, same pause, and two blows, 2—1—2, repeated three times.

8. The engineers reserve the right to give one stroke of the bells at any time; and in case of testing the boxes, each test will be preceded by one stroke of the bells.

TABLE

SHOWING THE APPARATUS CALLED TO DIFFERENT BOXES ON FIRST, SECOND, AND THIRD ALARMS.

BOXES.	FIRST ALARM.			SECOND ALARM.			THIRD ALARM.		
	Engine.	Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.	Engine.	Hose.	Hook-and-ladder.
3.....	1st R. 3	C. 1	1-3	2d R. 2	.....	.....	5-6	2	5-6
4.....	1st R. 2-3	"	1-3	2d R.	.....	5	5-6	.....	6
5.....	1st R. 2-3	"	1	2d R.	2-3	5	5-6	.....	6
6.....	1st & 2d R.	"	1-2	2-3	3	5	5-6	.....	6
7.....	1st R. 3	"	1	2d R.	.....	5	2-5-6	3	6
8.....	1st & 2d R. 5	"	1-2	1-5	3	3	2-6	3	6
9.....	1st R. 5	"	1	2d R.	2	1	2-3-6	3	3-6
12.....	5	"	1	1st R.	2	1	2d R. 2-3-6	3	3-6
13.....	1st R. 5	"	1-2	2d R.	.....	1	2d R. 2-3-6	3	3-6
14.....	1st R. 5	"	1-2	2d R. 3	.....	1	2-6	3	3-6
15.....	1st & 2d R. 5	"	1-2	1-5	3	3	2-6	3	6
16.....	1st R. 5	"	1-2	2d R. 3	.....	3	2-6	3	6
17.....	1st R. 3	"	1-2	2d R. 5	.....	1	2-6	3	3-6
18.....	1st R. 3	"	1-2	2d R.	.....	1	2-5-6	3	5-6
21.....	1st R. 3	"	1	2d R. 2	2	5	5-6	3	6
23.....	1st R. 3	"	1-2	2d R.	.....	1	2-5-6	3	5-6
24.....	1st R. 3	"	1-2	2d R.	.....	1	2-5-6	3	5-6
25.....	1st R. 3	"	1-2	2d R.	.....	1	2-5-6	3	5-6
26.....	1st R. 3	"	1-2	2d R. 5	.....	3	2-6	3	1-6
27.....	1st R. 3	"	2	2d R.	1	1	2-5-6	3	5-6
28.....	3	"	2	1st R.	1	.....	2d R. 2-5-6	3	1-5-6
31.....	1st R. 6	"	1	2d R. 5	2	6	2-3	3	3
32.....	1st R. 5	"	1	2d R. 6	2	6	2-3	3	3
34.....	1st & 2d R. 5-6	"	1-2	2-3	.....	6-3	.....	3	.....
35.....	1st & 2d R. 5-6	"	1	2-3	.....	6-3	.....	3	.....
36.....	1st & 2d R. 5-6	"	1	2-3	2	3-6	.....	3	.....
39.....	1st R. 3	"	1-3	2d R. 2	2	5	5-6	.....	6
41.....	1st & 2d R. 2-3	"	1	5-6	2-3	5-6	.....	.....	.....
42.....	1st & 2d R. 2-3	"	1	5-6	2-3	5-6	.....	.....	.....
43.....	1st R. 2-3	"	1	2d R. 6	2-3	1	5	.....	6-5
45.....	1st & 2d R. 2-3	"	1	5	2-3	5	6	.....	6
51.....	2-6	"	.....	1st R. 3	1	3	2d R. 5	6-2	1-5
52.....	2-6	"	1	1st R. 3	3	3	2d R. 5	2	1-5
53.....	2-6	"	1	1st R. 3	.....	3	2d R. 5	2-3	1-5
54.....	2-6	"	.....	1st R.	1	.....	2d R. 3-5	2-3	1-3-5
56.....	2-6	"	1	1st R. 3	3	3	2d R. 5	2	1-5
57.....	2-3	"	1	6	3	3	1st & 2d R. 3-5	2-3	1-3-5
61.....	1st R. 3	"	1-3	2d R. 2	.....	.....	5-6	2	1-5-6
62.....	1st R. 3	"	1-3	2d R. 2	.....	.....	5-6	2	1-5-6
71.....	1st R. 3	"	1	2d R.	2-3	1	2-5-6	.....	5-6
72.....	1st R. 3	"	1	2d R.	2	1	2-5-6	3	5-6
73.....	1st R. 3	"	1	2d R.	2	1	2-5-6	3	5-6
81.....	1st & 2d R.	"	1	5	2	3-5	2-6	3	6
82.....	1st & 2d R. 5	"	1-2	3-6	.....	3-6	2	.....	.....
112.....	1st R. 5	"	2	2d R.	1	1	2-3-6	3	3-6
113.....	1st R. 5	"	2	2d R.	1	3	2-3-6	3	1-6
114.....	1st R. 5	"	1-2	2d R. 3	.....	3	2-6	3	1-6
115.....	1st R. 5	"	2	2d R.	1	1	2-3-6	3	3-6
212.....	1st R. 3	"	2	2d R.	1-3	1	2-5-6	.....	5-6
213.....	1st R. 3	"	2-3	2d R.	1	1	2-5-6	1	6-5
214.....	1st R. 3	"	2-3	2d R.	.....	1	2-5-6	1	5-6
215.....	1st R. 3	"	2-3	2d R.	1	1	2-5-6	.....	5-6
216.....	1st R. 3	"	2	2d R.	1	1	2-5-6	3	5-6
217.....	1st R. 3	"	2	2d R.	1	1	2-5-6	3	5-6
261.....	1st R. 3	"	1-2	2d R. 5	.....	5	2-6	.....	3-6
312.....	1st R. 2-6	"	1	2d R. 5	2	1	3	3	3-5
313.....	1st R. 2-6	"	1	2d R. 5	2	1	3	3	3-5
314.....	5-6	"	1	1st R. 2	.....	6	2d R. 3	2-3	1-3
315.....	5-6	"	.....	1st R.	1	6	2d R. 2-3	2-3	1-3
321.....	2-6	"	1	1st R. 5	.....	1	2d R. 3	2-3	3-5
323.....	2-6	"	1	1st R. 5	.....	5	2d R. 3	2-3	1-3-5
324.....	2-6	"	1	1st R. 5	.....	5	2d R. 3	3-2	1-3
511.....	2-6	"	.....	1st R.	1	3	2d R. 3-5	2-3	1-5
513.....	2-6	"	.....	1st R.	1	.....	2d R. 3-5	2-3	1-3-5

## Rules and Regulations in Regard to Responding to Fires and Alarms.

The following rules have been adopted by the board of engineers, and the fire department will strictly comply until otherwise ordered, and will attend alarms of fire as per "OFFICIAL RUNNING CARD."

### RUNNING RULES.

Whenever an alarm is sounded, the members of all companies not called to that box will report to their respective company quarters, and *there remain until dismissed* by the signal on the bells or by an engineer in charge.

In case companies on their first run have responded to an alarm, companies on their second run to the box from which the alarm has been sounded, will answer all first-run boxes of the absent companies; and in case engines are out that would respond to another box, then third alarm companies will respond. In case of an alarm from a box that does not call for a third alarm, companies on their second run will then answer to all other boxes.

Whenever two trucks answer to first alarm, the other truck will answer to all other boxes.

At any time when an alarm of fire is given, the engine, hose carriage, or truck that leaves the house first will have the right to lead to the fire. Whenever a horse lags or gives out, drivers should then give others the right of way, so as not to delay the rest of the apparatus. No RUNNING BY WILL BE ALLOWED, EXCEPT IN CASE OF ACCIDENT, UNDER PENALTY OF DISMISSAL OF THE DRIVER FROM THE DEPARTMENT.

The drivers shall not permit persons not connected with the department to ride upon their apparatus, and in

muddy<sup>o</sup> weather or heavy wheeling they shall not permit any one to ride upon their apparatus when returning from fires.

Engineers of steamers will not run over eighty (80) pounds water pressure, except when orders are received from a member of the board of engineers or of the officer in command of the company.

CAPTAINS, or commanding officers, upon return from alarms will report to headquarters immediately, personally or by telephone, after apparatus is "made up" and ready for duty.

#### THIRD ALARM.

ON THIRD ALARM all apparatus will respond.

#### GENERAL ALARM.

In the event of a fire of such magnitude that second and third alarms are needed, a general alarm will be given by striking TEX BLOWS, in which case all companies will respond.

#### SPECIAL CALLS ON FIRE ALARM.

When more apparatus is wanted without giving a second or third alarm, the following special calls will be given:

2—1 for Engine 1.	1—1—1 for Aerial Truck.
2—2 for Engine 2.	3—3 for Truck 3.
2—3 for Engine 3.	3—5 for Truck 5.
2—4 for Engine 4.	3—6 for Truck 6.
2—5 for Engine 5.	4—1 for Hose 1.
2—6 for Engine 6.	4—2 for Hose 2.
	4—3 for Hose 3.

Companies answering "special calls" will wait thirty seconds before leaving quarters, to prevent mistakes.

## OUT OF TOWN CALL.

For a fire out of the city 2—2—2, in which case all companies will assemble at their respective quarters and await orders.

## ALL OUT SIGNAL.

Two blows on the bells, which dismisses all members at company quarters.

This signal will be given after companies working at a fire have returned to quarters, "made up," and are ready to respond to another alarm.

## TEST SIGNAL.

One blow at 12.30 noon.

## SCHOOL SIGNALS.

1—1, with fifteen seconds between blows, closes primary and middle schools.

2—2, with fifteen seconds between the 2's, closes all the schools. Time for giving same, 7.45 A. M., 11.30 A. M., or 1.15 P. M.

## MILITARY CALL.

12 blows twice.

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Rules for Exercising Horses.

It shall be the duty of the drivers of engines, hose carriages, hose wagons, hook-and-ladder trucks, and all other apparatus connected with this department, to exercise their horses every day, weather permitting, except Sunday, with the exception of engines having "first" and "second runs," and in such cases must exercise on days of "second run," the same to be done within the following limits:

## CENTRAL STATION.

North to Pearl street.      East to Union street.  
South to Merrimack street.      West to Elm street.

## NORTH MAIN-STREET STATION.

North to Adams street.      East to Main street.  
South to Granite street.      West to Dubuque street.

## LAKE AVENUE STATION.

North to Manchester street. East to Belmont street.  
South to Summer street.      West to Maple street.

## MAPLE-STREET STATION.

North to Myrtle street.      East to Linden street.  
South to Hanover street.      West to Union street.

## WEBSTER-STREET STATION.

North to Clarke street.      East to Union street.  
South to Pennacook street.      West to Elm street.

## RIMMON-STREET STATION (MCGREGORVILLE).

North to Kelley street.      East to Beauport street.  
South to Wayne street.      West to Rimmon street.

## BAKERSVILLE STATION.

North to bridge over B. &      East to Calef road.  
M. R. R.      West to Brown avenue.  
South to Baker street.

Drivers must confine themselves to the above, and in no case take their horses beyond the prescribed limits, except for shoeing and in case of fire, without permission from the chief or an assistant engineer.

In exercising, care must be taken to avoid colliding with other teams. In approaching corners, crossings, street-car tracks, and in going down grades the speed of the horses must be checked.

In case of an alarm use gong freely while returning to quarters.

Any driver violating these rules will be liable to suspension or discharge.

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### Stations and Sleeping Rooms.

All stations of this department will be open from 7 A. M. until 9 P. M., and the members at the several stations will receive visitors and citizens courteously, answer all questions in a gentlemanly manner, and give any proper information.

Gambling of any kind shall not be done or permitted in or about any of the houses or premises occupied by the department.

Stations to be closed at 10 o'clock P. M.

All games must cease at 10 o'clock P. M., and the stations be closed at that hour, to permit the permanent men and those detailed to sleep in the station, to retire undisturbed.

None of the stations will be open after the above hour (excepting in case of an alarm of fire) without permission of the chief or a member of the board of engineers.

Stations may be kept open Saturday evenings until 11 o'clock.

No spirituous or malt liquors shall be allowed in or about any of the fire stations, and any member of the fire department seen intoxicated at any fire or alarm of fire, or who shall be known to frequent places where liquors are sold, during the progress of a fire, or whenever in uni-



form, shall be subject to reprimand, or dismissal, as the board of engineers may determine.

Any permanent member visiting any liquor saloon in uniform, except in the performance of his duty as a member of the fire department, or who is intoxicated or visits places where intoxicating liquors are sold, while on duty, shall be suspended, or discharged, as the board of engineers may determine.

Commanding officers of companies, having knowledge of the violation of the foregoing rules, will suspend the offender, and report the same to the chief, or board of engineers.

The permanent men shall exercise a careful supervision over the sleeping apartments, see that the rooms are put in order and the beds made as early as 11 o'clock A. M., and that the bedding is changed at suitable intervals. The occupants of each bed will be held responsible for the cleanliness of the same, and held strictly accountable for any damage to either bed or bed clothing through carelessness. After 10 P. M. occupants shall refrain from loud talking or in any manner disturbing the rest of any who have retired.

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#### Absent from City or Station.

No permanent member shall leave his station to visit any section of the city without permission of the chief or an assistant engineer, or leave the city, or be granted leave of absence, without notifying the chief engineer and procuring a substitute to his acceptance, and the substitute shall be on duty before the applicant leaves his post.

*Any call member expecting to be absent from the city shall notify the captain of his company, and before leaving the city shall procure a substitute satisfactory to said captain.*

Any member of the department not complying with the above rules shall be liable to suspension or expulsion from the department.



## DAYS OFF.

Day of month.	NAME.	COMPANY.	Day of month.	NAME.	COMPANY.
1	Hall.....	Engine 1.	17	Porter .....	Eng. & Ladder 3.
2	Harvey .....	" 1.	18	Seaward .....	Hose 2.
3	Barker.....	" 1.	19	Morse.....	Eng. & Ladder 5.
4	Parsons* ....	Hose 1.	20	Smith .....	" " 5.
5	Gould .....	Engine 4.	21	Cann .....	" " 5.
6	Truell .....	" 4.	22	Hubbell.....	" " 5.
7	Rowe .....	" 4.	23	Morrill.....	Engine 2.
8	Dyer .....	Truck 1.	24	Lane .....	" 2.
9	Denyou .....	" 1.	25	Whitcomb ...	" 2.
10	Pherson .....	" 1.	26	Edgar.....	Eng. & Ladder 6.
11	Porter .....	Chemical 1.	27	Foster .....	" " 6.
12	Richardson..	" 1.	28	Cann .....	" " 6.
13	Forsaith .....	Engine & Ladder 3.	29	Crosby*.....	" " 6.
14	Piper .....	" " 3.	30	Rogers*.....	Hose 3.
15	Wheeler.....	" " 3.	31	Sloan*.....	" 3.
16	McLeod .....	" " 3.			

\* In February Crosby will take the 16th, and Rogers the 26th; in July Parsons will take the 14th; and in February, April, June, September, and November, Sloan will take the 27th.

The hour of leaving will be 7 o'clock A. M., and members will not leave their station until the arrival of the spare driver. They must report *promptly at 7 o'clock* the following morning for duty.

Those whose breakfast hour is 6 o'clock will remain at station until 7 o'clock on the date of their "day off."

Should a fire be in progress at the hour of changes, men will remain on duty until the "all out" is given, except permission is obtained of the chief, or engineer in charge of fire, to retire.

Should a "general" or third alarm be rung in while

members are in town, they will be expected to report for duty.

On the "day off" of the engineer of a steamer, the assistant engineer shall, on his arrival at the fire, act as engineer.

The time of change from *first* and *second* run will be made at 7 o'clock A. M.

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### Entering Buildings with Line of Hose.

All hose companies are instructed not to enter any building with a line of hose unless the stop nozzle is closed, except in cases where they can see the fire, and when their streams will reach it without damage to other property.

Steamer companies are not to enter a building with a line of hose without orders, unless fire can be seen, due care being exercised as to whether their services are needed.

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## ESTIMATED VALUE OF PROPERTY.

### Engine No. 1.

#### LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$1,000.00
1 one-horse wagon.....	400.00
3 gray horses for steamer.....	685.00
1 gray horse for hose wagon.....	225.00
4 swinging harnesses.....	200.00
1 pair double exercise harnesses.....	50.00
1 single exercise harness.....	40.00

2,000 feet fabric hose.....	\$1,100.00
Stable fixtures, blankets, etc.....	80.00
Tools, furniture, and fixtures.....	200.00
Firemen's suits and badges.....	200.00
Total amount.....	<u>\$7,110.00</u>

### Engine No. 2.

LOCATED AT NORTH MAIN STREET, 'SQUOG.

1 second-size Amoskeag steamer.....	\$4,000.00
1 hose wagon.....	600.00
1 exercise wagon, poles, shafts, and 3- horse hitch.....	340.00
3 bay horses for steamer.....	617.00
1 pair gray horses for hose wagon.....	450.00
3 exercise harnesses, 2 at \$40, 1 at \$20....	100.00
5 swinging harnesses.....	250.00
1 double sled.....	60.00
3,200 feet fabric hose.....	1,760.00
Stable fixtures and blankets.....	94.00
Furniture, fixtures, carpets, etc.....	466.00
Firemen's suits and badges.....	150.00
Total amount.....	<u>\$8,887.00</u>

### Engine and Ladder No. 3.

LOCATED ON LAKE AVENUE, CORNER MASSABESIC STREET.

1 second-size Amoskeag steamer.....	\$3,500.00
1 two-horse hose wagon.....	400.00
1 two-horse truck and equipments.....	1,700.00
1 three-horse hitch attachment (extra)...	200.00

1 pair black horses for steamer.....	\$417.00
1 pair bay horses for hose wagon.....	400.00
1 pair bay horses for truck.....	400.00
3 exercise harnesses, 2 at \$50, 1 at \$40....	140.00
6 swinging harnesses.....	300.00
3,200 feet fabric hose.....	1,760.00
Stable fixtures, blankets, etc.....	80.00
Beds, bedding, carpets, hall furniture, etc.	575.00
Firemen's suits and badges.....	200.00
1 exercise wagon.....	292.50
Total amount.....	<u>\$10,364.50</u>

#### Engine No. 4.

LOCATED ON VINE STREET.

1 first-size Amoskeag steamer.....	\$4,200.00
1 hose wagon.....	400.00
3 horses for steamer.....	600.00
1 horse for hose wagon.....	200.00
3 exercise harnesses.....	60.00
4 swinging harnesses.....	200.00
2,600 feet fabric hose.....	1,430.00
Hall. furniture, beds, bedding, etc.....	275.00
Stable fixtures and blankets.....	75.00
Firemen's suits and badges.....	150.00
Total amount.....	<u>\$7,590.00</u>

#### Engine and Ladder No. 5.

LOCATED ON WEBSTER STREET, CORNER CHESTNUT.

1 third-size Amoskeag steamer.....	\$3,600.00
1 two-wheeled Amoskeag hose carriage..	600.00

1 steel frame ladder truck.....	\$1,650.00
1 pair bay horses for steamer.....	500.00
1 pair bay horses for truck.....	400.00
1 bay horse for hose carriage.....	200.00
1 exercise wagon.....	325.00
1 double sled.....	50.00
5 swinging harnesses.....	250.00
2 pairs exercise harnesses.....	100.00
2,300 feet fabric hose.....	1,265.00
Bedding, furniture, tools, etc.....	247.00
Stable fixtures, blankets, etc.....	90.00
Firemen's suits, badges, etc.....	200.00
Total amount.....	<u>\$9,477.00</u>

### Engine and Ladder No. 6.

LOCATED AT CORNER AMORY AND RIMMON STREETS.

1 second-size Amoskeag steamer.....	\$3,500.00
1 hook-and-ladder truck (with Bangor ex- tension).....	1,680.00
1 one-horse carriage.....	600.00
2 gray horses for steamer.....	400.00
2 bay horses for truck.....	267.00
1 gray horse for hose carriage.....	200.00
5 swinging harnesses.....	250.00
2,000 feet fabric hose.....	1,100.00
Hall furniture, carpets, beds, bedding, etc.	375.00
Stable fixtures, blankets, etc.....	85.00
Firemen's suits and badges.....	187.00
1 exercise wagon.....	290.50
Total amount.....	<u>\$8,935.50</u>

## Hose No. 1.

LOCATED ON VINE STREET.

1 four-wheeled Amoskeag hose carriage	\$600.00
2 horses.....	500.00
2 single harnesses.....	70.00
1 single sled.....	40.00
1 hose sled.....	20.00
2,300 feet fabric hose.....	1,265.00
Furniture and fixtures.....	200.00
Beds, bedding, etc.....	60.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	120.00
Total amount.....	<u>\$2,925.00</u>

## Hose No. 2.

LOCATED ON MAPLE STREET, CORNER EAST HIGH.

1 four-wheeled Amoskeag hose carriage..	\$600.00
1 bay horse.....	100.00
1 exercise harness.....	30.00
1 swinging harness.....	50.00
1 exercise wagon.....	325.00
1,900 feet fabric hose.....	1,045.00
150 feet leather hose.....	60.00
Furniture and fixtures.....	100.00
Firemen's suits and badges.....	120.00
Total amount.....	<u>\$2,410.00</u>

## Hose No. 3.

LOCATED ON SOUTH ELM STREET, BAKERSVILLE.

1 combination hose wagon (with ladders)	\$1,000.00
1 pair gray horses.....	400.00
1 pair swinging harnesses.....	100.00

1 pair exercise harnesses.....	\$50.00
1 exercise wagon.....	50.00
2,000 feet fabric hose.....	1,100.00
Furniture, fixtures, bedding, etc.....	85.00
Stable fixtures, blankets, etc.....	65.00
Firemen's suits and badges.....	80.00
Total amount.....	<u>\$2,930.00</u>

**Hook-and-Ladder No. 1.**

LOCATED ON VINE STREET.

1 aerial hook-and-ladder truck.....	\$4,200.00
3 horses.....	800.00
3 exercise harnesses.....	50.00
3 swinging harnesses.....	150.00
2 extra Bangor extension ladders.....	360.00
7 rubber blanket covers.....	168.00
Furniture and fixtures.....	200.00
Beds, bedding, and furniture.....	75.00
Stable fixtures and blankets.....	60.00
Firemen's suits and badges.....	150.00
Total amount.....	<u>\$6,153.00</u>

**Chemical Engine No. 1.**

LOCATED ON VINE STREET.

1 double tank (60 gallons each) engine.....	\$2,250.00
1 pair black horses.....	400.00
1 pair exercise harnesses.....	50.00
1 pair swinging harnesses.....	100.00
Furniture and fixtures.....	75.00
Stable fixtures and blankets.....	50.00
Firemen's suits and badges.....	35.00
Total amount.....	<u>\$2,960.00</u>

## Supply Wagon.

1 supply wagon, with boxes and engineers' lanterns.....	\$250.00
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## Spare Hose.

AT CENTRAL STATION, VINE STREET.

200 feet leather hose.....	\$100.00
500 feet fabric hose.....	275.00
Total amount.....	\$375.00

## Exercise Wagon.

AT CENTRAL STATION, VINE STREET.

1 four-wheeled exercise wagon with pole, shafts, three-horse hitch, and coal boxes..	\$350.00
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## E. W. Harrington Steam Fire Engine.

STORED AT SHEDS OF ENGINE NO. 2.

Old U tank Amoskeag engine (may be worth for exchange).....	\$250.00
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## Engineers' Department.

5 engineers' white rubber coats.....	\$37.50
Furniture and fixtures.....	150.00
Total amount.....	\$187.50



**Riverside Hose Co. No. 5.**

LOCATED AT CORNER OF OLD FALLS ROAD AND FRONT STREET.

1 four-wheeled hose carriage.....	\$400.00
800 feet leather hose.....	300.00
2 hose-pipes, spanners, etc.....	40.00
Furniture and fixtures.....	10.00
Total amount.....	<u>\$750.00</u>

**Hallsville ( Independent ) Hose.**

1 two-wheeled hose carriage.....	\$30.00
500 feet leather hose.....	150.00
Nozzle, wrenches, etc.....	15.00
Total amount.....	<u>\$195.00</u>

**Goffe's Falls Hose Carriage.**

LOCATED AT DEVONSHIRE MILLS.

1 two-wheeled hose carriage.....	\$30.00
2 hose-pipes.....	10.00
Total amount.....	<u>\$40.00</u>

**Pond Road Hose Carriage.**

LOCATED IN BASEMENT OF W. P. FARMER'S BARN.

1 two-wheeled hose-carriage.....	\$30.00
500 feet leather hose.....	150.00
Total amount.....	<u>\$180.00</u>

## Sleeping-Hall.

AT CENTRAL STATION, VINE STREET.

6 beds, bedding, wardrobes, etc.....	\$260.00
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## Extra Horse.

1 steel gray horse.....	\$175.00
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## Fire Alarm Telegraph.

At cost, including additions previous to 1885.	\$21,625.00
Remodeling in 1885.....	6,000.00
Additions in 1886.....	775.00
in 1887.....	375.00
in 1888.....	575.00
in 1889.....	430.00
in 1890.....	300.00
in 1891.....	280.00
in 1892.....	150.00
in 1893.....	500.00
in 1894.....	250.00
in 1895.....	500.00
in 1896.....	410.00
"Individual Tapper" system.....	3,000.00
Wire, ladders, arms, brackets, etc.....	150.00
Total.....	\$35,310.00

## Recapitulation.

Engine No. 1.....	\$7,110.00
Engine No. 2.....	8,887.00
Engine and Ladder No. 3.....	10,364.50

Engine No. 4.....	\$7,590.00
Engine and Ladder No. 5.....	9,477.00
Engine and Ladder No. 6.....	8,935.50
Harrington Engine (old).....	250.00
Hose No. 1.....	2,925.00
Hose No. 2.....	2,410.00
Hose No. 3.....	2,930.00
Hook-and-Ladder No. 1.....	6,153.00
Chemical No. 1.....	2,960.00
Supply wagon.....	250.00
Spare hose.....	375.00
Exercise wagon (Central station).....	350.00
Engineer's department.....	187.50
Riverside Hose No. 5.....	750.00
Hallsville Hose.....	195.00
Goffe's Falls Hose.....	40.00
Pond road Hose.....	180.00
Sleeping Hall.....	260.00
Extra horse.....	175.00
Fire-Alarm Telegraph.....	35,310.00
Total.....	<u>\$108,064.50</u>

## BOARD OF ENGINEERS.

Badge No.	NAME.	Rank.	Occupation.	Residence.
1	Thomas W. Lane.....	Chief.....	.....	1937 Elm.
2	Fred S. Bean.....	Asst. and clerk	Machinist.....	102 Orange.
3	Ruel G. Manning.....	Assistant.....	Carpenter.....	55 Douglas.
4	Eugene S. Whitney....	" .....	Supt. Elec. Light	N. River road.
5	Clarence R. Merrill....	" .....	Grain dealer ....	414 Merrimack

## ENGINE COMPANY NO 1.

*House, 28 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
7	Charles F. McCoy.....	Captain.....	Machinist.....	50 Mechanic.
8	Frank E. Stearns.....	Lieutenant....	Paper hanger...	289 Lake ave.
18	James L. Brock.....	Clerk.....	Tinsmith.....	21 Market.
6	Charles F. Hall.....	Engincer.....	Engincer.....	28 Vine.
13	Joseph H. Gould .....	Asst. engineer	Machinist.....	78 Lowell.
11	Frank H. Harvey .....	Driver engine..	Teamster.....	28 Vine.
12	Artemas C. Barker ...	Driver hose....	" .....	28 Vine.
43	Frank B. Marston.....	Hoseman .....	Carpenter.....	14 Mechanic.
15	Thomas J. Wyatt.....	" .....	" .....	26 Mechanic.
9	Lewis G. Bryant.....	" .....	" .....	1451 Elm.
10	Fred A. Lang.....	" .....	Machinist.....	43 Nashua.
17	Melvin Walker.....	" .....	Carpenter.....	43 Nashua.
19	Charles H. Fraser.....	" .....	" .....	9 Mechanic.
14	Edgar A. Young.....	" .....	Clerk.....	369 Merrimack

## ENGINE COMPANY NO. 2.

*House on North Main Street, 'Squog.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
71	Charles G. Ranno.....	Captain.....	Harness-maker..	270 So. Main.
68	George P. Ames.....	Lieutenant...	Supt. Streets....	226 No. Main.
76	Jéremiah Lane.....	Clerk and driver of engine.	Teamster.....	210 No. Main.
120	Harry C. Morrill.....	Engineer.....	Engineer.....	53 Beauport.
119	Stephen Thomas.....	Asst. engineer.	Carpenter.....	55 Douglas.
69	Arthur W. Whitecomb.	Driver of hose.	Teamster.....	151 Douglas.
72	Samuel A. Hill.....	Hoseman.....	Carpenter.....	86 School.
75	Robert J. Hill.....	" .....	" .....	86 School.
77	Daniel B. Emery.....	" .....	Machinist.....	Williams.
73	Charles S. Cousins....	" .....	Harness-maker..	323 Douglas.
74	Thomas C. Foote.....	" .....	Wool sorter.....	56 No. Main.
66	Joseph H. Alsop .....	" .....	Wool waste sort'r	54 Douglas.
70	Chas. M. Tewksbury..	" .....	Clerk B & M R R	113 Parker.
67	James Ried.....	" .....	Truckman.....	431 Granite.

## ENGINE AND LADDER COMPANY NO. 3.

*House on Lake Avenue, corner Massabesic.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
86	Frank F. Porter.....	Captain.....	Manufacturer ...	330 E. Spruce.
97	Edwin C. Paul.....	Lieut. engine..	Collector .....	372 Lake ave.
98	John N. Chase.....	Lieut. of truck	Overseer .....	268 Bridge.
89	Parker R. Brown.....	Clerk.....	Clerk.....	422 Merrimack
121	George B. Forsaith....	Engineer .....	Engineer .....	455 Hanover.
122	John P. Walker.....	Asst. engineer	Machinist.....	430 Lake ave.
87	Geo. H. Wheeler .....	Driver engine.	Teamster .....	384 E. Spruce.
81	William S. McLeod....	Driver hose ...	" .....	415 Lake ave.
82	Lyman W. Piper.....	Driver truck..	Dresser.....	398 Merrimack
114	John Wilson.....	Fireman.....	Carpenter .....	19 Warren.
110	Albert W. Smith.....	" .....	Clerk.....	331 Merrimack
84	Walter M. Moulton....	" .....	Plumber .....	367 Hanover.
80	Clarence Hackett.....	" .....	Laundryman....	401 Central.
85	John W. Finn.....	" .....	Painter .....	501 Wilson.
88	George Taylor .....	" .....	Mechanic.....	382 Lake ave.
78	George Dunnington...	" .....	Harness-maker..	510 Wilson.
79	Lewis N. Dufrain.....	" .....	Plumber.....	373 Hall.
148	Orren S. Coburn.....	" .....	Clerk.....	386 Central.
153	Edson F. Wyman.....	" .....	Manufacturer....	389 Lake ave.
105	Herbert E. Dunbar ...	" .....	Clerk.....	310 Maple.

## ENGINE COMPANY NO. 4.

*House, No. 20 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
20	Lucius B. Snelling....	Captain .....	Pharmacist.....	103 Walnut.
28	John H. Wales, Jr....	Lieutenant....	Brick mason....	19 M. S. E.
33	Thomas W. Lane, Jr..	Clerk.....	Electrician .....	1937 Elm.
21	Edgar G. Abbott .....	Engineer .....	Machinist.....	12 Linden.
27	Edward Sargent.....	Asst. Engineer	Machinist .....	20 Vine.
152	Charles H. Rogers ...	Driver engine.	Teamster.....	20 Vine.
29	Ellsworth V. Rowe...	Driver of hose.	Teamster.....	20 Vine.
22	Walter A. Clarkson...	Hoseman .....	Carpenter .....	Walnut.
25	Frank B. Stevens.....	" .....	Clerk.....	20 Gore.
23	George Thompson....	" .....	Clerk.....	85 Walnut.
24	Harvey E. Harris....	" .....	Laundryman....	414 Manchest'r
32	Luther A. Knight....	" .....	Engineer .....	16 Stark.
30	James C. Newton.....	" .....	Machinist .....	20 Vine.
26	Alfred Gustafson.....	" .....	Machinist .....	20 Vine.

## ENGINE AND LADDER COMPANY NO. 5.

*House, No. 44 Webster Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
49	Charles W. Brown....	Captain.....	Clerk.....	16 Hazel.
101	Milo B. Wilson.....	Lieutenant...	Mason.....	44 Blodget.
162	George N. Burpee....	" .....	Electrician.....	136 Sagamore.
46	Woodbury Davison...	Clerk.....	Carpenter ....	817 Union.
102	Walter Morse.....	Engineer .....	Machinist.....	54 Appleton.
42	Daniel W. Morse.....	Asst. engineer.	Engineer .....	1419 Elm.
125	Emil H. Smith.....	Driver engine.	Teamster.....	44 Webster.
124	Benjamin C. Cann....	Driver truck ..	" .....	44 Webster.
83	Ernest E. Hubbell ...	Driver hose ...	" .....	44 Webster.
47	Russell Cilley .....	Hoseman .....	Clerk .....	863 Chestnut.
95	Edward H. Clough....	" .....	" .....	859 Chestnut.
126	Alvin McLane.....	" .....	Carpenter .....	15 Liberty.
108	Edward L. Towle....	" .....	Clerk.....	72 N. Adams.
123	Charles H. Gile.....	" .....	Carpenter .....	896 Union.
99	Will G. Fraser .....	" .....	Dresser .....	655 Chestnut.
41	Frank A. Kinne.....	" .....	Machinist.....	75 Sagamore.
160	George E. Badger....	" .....	Steam-fitter.....	46 Upper Canal
161	Irving S. Bryant.....	" .....	Second-hand....	884 Union.
158	Andrew S. Fantom...	" .....	Cigar-maker....	1443 Elm.
159	Clarence D. Parker...	" .....	Clerk .....	31 N. Adams.



## ENGINE AND LADDER COMPANY NO. 6.

*House on Amory and Rimmon Streets.*

Badge No.	NAME.	RANK.	Occupation.	Residence.
140	Frank W. Tibbetts....	Captain.....	Loom-fixer.....	312 Cartier.
147	James A. Farley.....	Lieut. engine..	Machinist.....	385 Dubuque.
130	Thomas E. Gorman*..	Lieut. truck ...	Loom-fixer.....	356 Rimmon.
134	Alphonso E. Foster...	Clerk & driver	Carpenter.....	Engine-house.
132	Charles Edgar.....	Engineer .....	Engineer .....	" "
133	Alcide Provencher...	Asst. engineer.	Machinist.....	516 Beauport.
135	George A. Cann .....	Driver hose ...	Steam-fitter .....	Engine-house.
136	Henry C. Crosby.....	Driver truck ..	Teamster.....	" "
129	John Martin.....	Hoseman .....	Machinist.....	624 N. Main.
138	Thos. F. Fitzsimmons	" .....	Painter .....	258 Beauport.
141	John J. Conroy.....	" .....	Blacksmith.....	268 Beauport.
142	Frank St. John.....	" .....	Marble finisher .	5 Barr.
143	Henry Stein.....	" .....	Blacksmith.....	467 Hevey.
144	Arthur Provost.....	" .....	Wool sorter .....	516 Beauport.
145	John E. Herring .....	" .....	Loom-fixer....	402 Rimmon.
131	John C. Gemmell.....	" .....	Laborer.....	71 Conant.
137	William H. Marshall..	" .....	" .....	266 Douglas.
128	John H. McCabe .....	" .....	Clerk .....	310 N. Main.
139	Gideon Belisle.....	" .....	" .....	370 Cartier.
146	Richard F. Galway....	" .....	Cigar-maker....	460 N. Main.

\* Thomas E. Gorman killed December 30.

## HOSE COMPANY NO. 1.

*House, No. 26 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
36	Joseph E. Merrill .....	Captain.....	Currier.....	21 Ash.
38	George H. Porter.....	Lieutenant....	Carpenter.....	279 Laurel.
48	Albert A. Puffer .....	Clerk.....	Teamster.....	499 Beech.
37	Henry C. Parsons.....	Driver.....	" .....	16 Prospect.
52	Charles B. French.....	Hoseman.....	Carpenter.....	39 M. S. B.
53	John E. Sanborn....	" .....	" .....	274 Laurel.
35	Samuel W. Patten.....	" .....	Belt maker.....	3 M. S. B.
45	George I. Ayer.....	" .....	Electrician .....	28 M. S. B.
51	Edwin W. Merrill.....	" .....	Clerk .....	21 Ash.
34	Charles J. Willey.....	" .....	Mechanic.....	205 Hanover.
50	Andrew S. Heath.....	" .....	Clerk.....	283 East High.
39	George W. Snadden...	" .....	Plumber.....	373 Bridge.

## HOSE COMPANY NO. 2.

*House on Maple Street, corner East High.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
54	John F. Seaward.....	Captain.....	Carpenter .....	27 Warren.
55	Reyilo G. Houghton ..	Lieutenant ...	Gas fitter .....	288 Bridge.
59	Jos. W. Bateholder....	Clerk.....	Carpenter .....	521 Maple.
57	Walter Seaward.....	Driver.....	Teamster.....	521 Maple.
62	Julien B. Huntley.....	Hoseman .....	Plumber.....	35 Dutton.
60	Charles W. Powell ...	" .....	Carpenter.....	540 Maple.
61	Addison Seaward.....	" .....	" .....	255 Bridge.
56	Arthur B. Merrill.....	" .....	" .....	327 Amherst.
63	James A. Rogers.....	" .....	" .....	761 Beech.
65	John M. Emerson..	" .....	Plumber.....	245 Lowell.
58	Thomas Smith .....	" .....	Carpenter.....	24 South.
64	Melvin W. Worthen..	" .....	" .....	21 South.

## HOSE COMPANY NO. 3.

*House, South Elm Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
150	Fred S. Sloan.....	Captain.....	Fireman .....	23 Elm.
151	Elmer R. Laing.....	Clerk .....	Teamster.....	34 Brown ave.
31	Frank J. Dustin.....	Driver .....	" .....	21 Elm.
153	James H. McKenzie..	Hoseman .....	Sash-maker .....	Elm.
154	William P. Hall .....	" .....	" " .....	128 Calef road.
155	Henry O. Follansbee.	" .....	Gas-maker .....	205 Elm.
156	William E. Pierson ..	" .....	Foreman .....	122 Willow.
157	Frank D. Hardy.....	" .....	Yard brakeman.	20 Cheney plc.

## CHEMICAL ENGINE COMPANY NO. 1.

*House, No. 8 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
115	Edward A. Sears.....	Captain.....	Electrician.....	247 Concord.
117	Warren F. Wheeler....	Clerk & driver	Teamster.....	8 Vine.
103	Benj. R. Richardson..	Pipeman .....	Machinist.....	12 Mechanic.
116	Clarence D. Palmer ..	Fireman.....	Marble dealer...	355 Lake ave.
44	Asa W. Gage * .....	" .....	Lineman .....	239 Beauport.

\* Detailed as driver of supply wagon.

## HOOK-AND-LADDER COMPANY NO. 1.

*House 18 Vine Street.*

Badge No.	NAME.	Rank.	Occupation.	Residence.
111	Roscoe Dyer.....	Captain.....	Machinist .....	18 Vine.
92	Oscar P. Stone.....	Lieutenant...	Clerk .....	312 Manchest'r
90	Henry Johnson .....	Clerk .....	Steam-fitter ....	316 Walnut.
94	Charles M. Denyou..	Driver.....	Teamster.....	18 Vine.
91	Jerome J. Lovering..	Fireman.....	Carpenter .....	175 Hanover.
104	Harrison H. Cole....	" .....	" .....	45 M. S. B.
109	George M. Jones ....	" .....	Gardener .....	25 Prospect.
107	Henry Heap.....	" .....	Manufacturer..	18 Vine.
113	Charles H. Laxon....	" .....	Carpenter .....	13 Ray.
100	Frank M. Frisselle...	" .....	Reporter .....	454 Pine.
112	Chas. A. Butterfield..	" .....	Carpenter .....	26 Vine.
118	Frank A. Pherson....	" .....	Machinist .....	18 Vine.
93	Fred W. Bond.....	" .....	Loom-fixer .....	46 Stark.
106	Benj. F. Marsh .....	" .....	Carpenter .....	1480 Elm.
96	Louis F. Kettle.....	" .....	" .....	40 Orange.

REPORT  
OF THE  
TRUSTEES OF THE CITY LIBRARY.



# REPORT

OF THE

## TRUSTEES OF THE CITY LIBRARY.

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*To the City Councils of the City of Manchester:*

The Trustees of the City Library herewith respectfully present their forty-third annual report of the affairs of the library, and with the same the report made to them by the treasurer of the board, containing a statement of the sums received and the expenditures made by him in their behalf, from the funds in their possession and under their control; and also the report of the librarian to the board, giving in detail the statistics of the operation of the library during the year.

The report of the treasurer shows that during the year the sum of thirteen hundred and one dollars and six cents has been expended for the purchase of books, and the sum of one hundred and seventy-seven dollars and forty-one cents for the purchase of periodicals, making a total expenditure for both these purposes of fourteen hundred and seventy-eight dollars and forty-seven cents.

Of the amount expended for the purchase of books, the sum of sixty-five dollars and twenty-eight cents was used to purchase books to replace those worn out and withdrawn from circulation; and the sum of four hundred and ninety-six dollars and ninety-three cents was taken from

the income of the Dean fund and used for the purchase of books for that department of the library. Excluding these two items, the sum expended for the purchase of new books was seven hundred and thirty-eight dollars and eighty-five cents; and leaving a balance in the hands of the treasurer at the close of the year, of the amount appropriated by the city councils for the purchase of books, of six hundred and seventy-seven dollars and thirty-five cents.

The balances of the accumulated income at the close of the year, of the several funds under the control of the trustees, were as follows:

Dean fund.....	\$7,291.87
Mary E. Elliot fund.....	1,230.20
Eliza A. Eaton fund.....	353.52

During the year two hundred volumes were purchased from the Dean fund, at a cost, as above stated, of four hundred and ninety-six dollars and ninety-three cents.

No purchases have been made from the Mary Elliot fund, as the trustees have as yet been unable to arrange for the proper shelving and care of the same apart from the books intended for general circulation.

The incidental expenses of the library for the past year have been three thousand eight hundred and seventy-seven dollars and thirty-seven cents, which amount includes the sum of six hundred and twenty-six dollars and eighty-five cents, expended on account of the re-classification of the books in the library and additions to the card catalogue.

The expense of conducting the affairs of the library for the past year has been somewhat in excess of the average for the previous years, owing, principally, to the increased expense for services for assistants to the librarian, necessitated by the arrangement keeping the library open additional hours, and the additional cost for light-



ing the library by the use of electricity in place of gas formerly used.

The items that make up the amount of these incidental expenditures will be found in detail in the annual report of the city, the bills for the same having been paid by the city treasurer from the sum appropriated for the library, upon their approval by the trustees.

The librarian reports that the library has been open during the past year, for the delivery of books, three hundred and seven days, during which time the number of books delivered for home use was sixty-six thousand four hundred and eighty-eight, being an average of nearly two hundred and seventeen per day. In addition to this number delivered for general circulation, fifteen thousand four hundred and eighty books were delivered for use in the reading-room at the library, an average of about fifty per day. The total number of books delivered during the year for both these purposes was eighty-one thousand nine hundred and sixty-eight, an average of two hundred and sixty-seven per day. As compared with the previous year, the circulation for home use shows an increase of six thousand nine hundred and ninety-three, and the number delivered for use at the reading-room an increase of four thousand five hundred and forty-six. The total circulation was eleven thousand five hundred and thirty-nine greater than the year preceding, and the largest of any year since the library was established.

The number of books withdrawn from circulation during the year, on account of their worn and defaced condition, was seventy-nine. Of this number, and of others retired from circulation in previous years for the like reason, eighty-four have been replaced, at a cost of sixty-five dollars and twenty-eight cents. The trustees, in this connection, would respectfully renew the recommendation made several years ago, that a special appropriation be

made by the city councils to cover this expense of purchasing books in place of those worn out, so that the usual annual appropriation of one thousand dollars may be used, as no doubt intended in the contract with the city, for the purchase of new books and periodicals for the increase of the library rather than for replacing those worn out.

Seventy-three different periodicals have been regularly received at the library, fifty-five by purchase and eighteen by donation, and at the completion of the several volumes they have been bound and placed upon the shelves for general circulation.

The number of volumes in the library at the date of the last report, including maps and pamphlets, was thirty-nine thousand four hundred and forty-nine. During the year there have been added eight hundred and eleven volumes by purchase, two hundred and one by donation, and ninety-seven volumes of periodicals have been bound, a total of eleven hundred and nine, making the number of bound volumes in the library at the close of the year, thirty-nine thousand eight hundred and forty, and the total number, including sixteen maps and seven hundred and two pamphlets, forty thousand five hundred and fifty-eight.

The work of re-classifying and re-cataloguing the library has been continued during the year, and the librarian now reports that one half of the volumes in the library have been classified and catalogued, embracing the more important subject-heads and those most in demand for general circulation.

Following the report of the librarian will be found the names of the persons who have made donations of books to the library during the year, with the number presented by each. To all who have so generously contributed to the increase and usefulness of the library, the trustees

have caused due acknowledgment to be made in behalf of the city.

The trustees are not aware that any circumstance has occurred during the past year to disturb the harmonious operation of the library. The librarian, Miss Kate E. Sanborn, has fulfilled the duties of her position with the same fidelity as heretofore, and to the entire satisfaction of the trustees.

The trustees desire to renew their acknowledgments to the members of the city councils, and particularly to the committee on lands and buildings, for the courtesy and consideration with which their suggestions relating to the library have been received and carried out.

MARCH 17, 1897.

In board of trustees read and approved, and ordered to be signed by the chairman and clerk of the board, and transmitted to the city councils.

WILLIAM C. CLARKE,  
*Mayor.*

N. P. HUNT,  
*Clerk.*

## TREASURER'S REPORT.

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*To the Board of Trustees of the City Library:*

The treasurer of the board submits the following account of the receipts and expenditures by the board of the funds received on account of the library:

1896.	Dr.
Jan. 1. To balance of appropriation.....	\$472.57
April 11. Kate E. Sanborn, fines, catalogues, etc.....	186.32
July 17. appropriation for books for 1896...	1,000.00
	<hr/> \$1,658.89
Jan. 1. To balance of income of Dean fund.....	\$7,286.95
income of Dean fund.....	108.00
July 1. income of Dean fund.....	108.00
interest on accumulation of income..	230.95
Oct. 1. income of Dean fund.....	47.81
interest on accumulation of income..	7.09
	<hr/> \$7,788.80

Jan.	1.	To Mary E. Elliot fund	\$2,000.00	
		balance of interest		
		on same.....	1,130.45	
Oct.	1.	interest on Mary E.		
		Elliot fund.....	63.75	
		interest on accumu-		
		lation of income..	36.00	
			<hr/>	\$3,230.20
Jan.	1.	To Eliza A. Eaton fund	\$3,000.00	
		balance of interest		
		on same.....	249.98	
Oct.	1.	interest on Eliza A.		
		Eaton fund.....	96.52	
		interest on accumu-		
		lation of income..	7.92	
			<hr/>	\$3,353.52
				<hr/>
				\$16,031.41

1896.

CR.

Jan.	7.	Paid New England News Co., peri-	
		odicals.....	\$10.97
	7.	Publishers' Weekly, periodi-	
		cals.....	5.00
	7.	W. B. Clarke & Co., books....	25.00
	7.	Granite Monthly Co., books..	1.25
	17.	Boston Book Co., books....	71.00
	17.	Little, Brown & Co., books...	3.50
	17.	Publishers' Weekly, periodi-	
		cals.....	3.00
	27.	Boston Book Co., periodicals.	5.00
	27.	Isaac Walker, books.....	4.25
Feb.	4.	New England News Co., peri-	
		odicals.....	9.58
	14.	W. B. Clarke & Co., books...	44.86
	14.	* W. B. Clarke & Co.,(replaced)	
		books.....	3.84

March	4.	Paid George H. Polley & Co., periodicals.....	\$6.00
	5.	New England News Co., periodicals.....	17.91
	5.	Publishers' Weekly, books...	3.50
	9.	W. B. Clarke & Co., books....	39.07
	28.	Boston Society of Natural History, periodicals.....	8.00
	30.	Publishers' Weekly, books...	3.50
	30.	Little, Brown & Co., books...	2.00
April	3.	New England News Co., periodicals.....	9.61
	11.	Temple & Farrington Co., books.....	2.00
	13.	Little, Brown & Co., books..	6.00
	13.	W. B. Clarke & Co., books...	8.40
	20.	Joel Daniels & Co., books....	1.00
	23.	P. L. Clark, books.....	4.00
	23.	H. H. Metcalf, books.....	4.00
May	4.	New England News Co., periodicals.....	9.58
	7.	W. B. Clarke & Co., books...	113.31
	7.	Little, Brown & Co., books...	3.50
	19.	John Sheldon, books.....	4.20
	21.	George E. Littlefield, books..	7.20
June	3.	D. Appleton & Co., books....	5.00
	4.	New England News Co., periodicals.....	17.65
	4.	W. B. Clarke & Co., books...	5.92
	18.	Little, Brown & Co., books...	58.75
July	2.	Little, Brown & Co., books..	4.25
	3.	New England News Co., periodicals.....	9.60
	8.	W. B. Clarke & Co., books....	48.92
	18.	Granite Monthly Co., books..	1.25
	20.	Boston Book Co., books.....	41.50

Aug.	4.	Paid New England News Co., periodicals.....	\$10.86
	4.	Little, Brown & Co., books...	2.00
	6.	W. B. Clarke & Co., (replaced) books.....	41.48
	28.	Lawyers' Co-op. Pub. Co., books.....	5.00
Sept.	3.	New England News Co., periodicals.....	15.19
	9.	Little, Brown & Co., books...	1.50
	9.	W. B. Clarke & Co., books...	5.70
	9.	W. B. Clarke & Co., (replaced) books.....	12.55
Oct.	3.	New England News Co., periodicals.....	10.95
	3.	Little, Brown & Co. (Dean fund), books.....	94.15
	5.	John Wiley & Sons (Dean fund), books.....	113.00
	7.	D. Van Nostrand Co. (Dean fund), books.....	187.60
	15.	Library Bureau, books.....	1.00
	15.	Little, Brown & Co., books...	3.50
	19.	W. B. Clarke & Co., books....	95.43
	19.	W. B. Clarke & Co., (replaced) books.....	11.92
	22.	Damrell & Upham (Dean fund), books.....	83.07
Nov.	4.	New England News Co., periodicals.....	15.04
	11.	D. Van Nostrand Co. (Dean fund), books.....	19.11
	16.	W. B. Clarke & Co., books...	55.36
	20.	Microscopical Publishing Co., periodicals.....	4.00
	23.	George E. Littlefield, books..	16.00

Dec.	3.	Paid New England News Co., periodicals.....	\$9.47
	5.	W. B. Clarke & Co., (replaced) books.....	2.34
	22.	Little, Brown & Co., books...	3.75
	22.	W. B. Clarke & Co., books...	25.63
	31.	By balance of appropriation.....	677.35
		balance of Dean fund income..	7,291.87
		Mary E. Elliot fund and interest.....	3,230.20
		Eliza A. Eaton fund and interest.....	3,353.52
			<hr/>
			\$16,031.41

The expenditures for the incidental expenses of the library for the year ending December 31, 1896, the bills for which have been paid by the city treasurer upon the approval of the committee on accounts of the board of trustees, the items of which may be found in the annual report of the city, have been as follows:

Services of librarian.....	\$900.00
Services of assistants to librarian.....	934.00
Fuel.....	321.69
Gas and electricity.....	342.45
Insurance.....	125.00
Binding.....	99.79
Rebinding.....	139.34
Supplies.....	324.03
Re-classification and cataloguing.....	626.85
Printing.....	8.50
Water.....	16.00
Newspapers.....	6.00
Incidentals.....	33.72
	<hr/>
	\$3,877.37



## RECAPITULATION.

Balance December 31, 1895.....	\$3,629.12	
Appropriation for 1896.....	4,500.00	
	<hr/>	\$8,129.12
Paid trustees for purchase of books	\$1,000.00	
incidental expenses.....	3,877.37	
Balance of appropriation Decem-		
ber 31, 1896.....	3,251.75	
	<hr/>	\$8,129.12

Respectfully submitted.

N. P. HUNT,

*Treasurer of Trustees of City Library.*

DECEMBER 31, 1896.

We have examined the foregoing account, and find the same correctly cast and properly vouched.

WILLIAM C. CLARKE,

WALTER M. PARKER,

*Committee on Accounts of City Library.*

DECEMBER 31, 1896.

I certify that I have examined the several items of receipts and expenditures embraced in the foregoing report of the treasurer of the trustees of the city library, and find the same correctly cast and properly vouched.

JAMES E. DODGE,

*City Auditor.*

## LIBRARIAN'S REPORT.

---

*To the Board of Trustees of the Manchester City Library:*

GENTLEMEN,—I herewith submit the forty-third annual report of the city library:

Whole number of accessions December 31, 1895.....		39,449
Added during the year 1896:		
By purchase.....	811	
By gift.....	201	
Periodicals bound.....	97	
	<hr/>	1,109
Whole number at present.....		40,558
Including:		
Maps.....	16	
Pamphlets.....	702	
Bound volumes.....	39,840	
	<hr/>	40,558
Number of periodicals regularly received:		
By purchase.....		55
By gift.....		18
Number of days the library was open for reading and distribution of books.....		307
Number of volumes delivered for home use...		66,488
Average per day.....		217
Largest number any one day, November 7....		510

Largest number any one month, March.....	6,648
Smallest number any one month, July.....	4,484
Number of volumes delivered in the reading room.....	15,480
Average per day.....	50
Number of cards used on deposit.....	7
Number of cards issued during the year.....	654
Whole number issued since new registration..	10,973
Number of cards relinquished during the year	122
Postals sent to delinquents.....	321
Worn-out books removed from circulation....	79
Number of volumes replaced.....	84
Number of books lost or injured and paid for..	5
Number of volumes repaired at the bindery...	481
Number repaired and covered at the library..	16,620
Cash on hand January 1, 1896.....	\$186.32
Amount received from January 1 to December 31, 1896:	
For fines.....	\$239.25
catalogues, 64 at 30c.....	19.20
books lost and paid for....	2.47
	<hr/>
	\$260.92
	<hr/>
	\$447.24
Paid to N. P. Hunt, treasurer, April 11, 1896.....	\$186.32
Paid for expressage and incidentals.	89.59
	<hr/>
	\$275.91
	<hr/>
Balance on hand December 31, 1896.....	\$171.33

## CIRCULATION.

The report of last year contained a table showing the variation in the circulation since 1879, and the gain of 1895 over all preceding years. The gain for 1896 was

much larger, 7,000 more volumes having been issued for home use than in 1895, and over 4,500 more for library use, making a total gain of 11,539. It often happens that, owing to the publication of a new catalogue, a change in library hours, or some other measure which tends to make a library more popular for a time, the circulation shows a large increase for a year, and then drops back to its old limit. Such has not been our experience, and the slow yet steady increase of the use of the library indicates that it is reaching out to a larger number of people, and making its influence more and more felt in the community. That the action of the trustees in reducing the age limit from sixteen to twelve years has been appreciated is shown by the fact that there have been issued during the past year 110 cards to children over twelve and under sixteen years of age. The number of children drawing books from the library, reading in the building, and clustering about the catalogue is very noticeable.

#### ACCESSIONS.

Besides the current books there have been added to the library some valuable and important works. Each year an effort is made to fill up the gaps occurring in different classes of literature, by the purchase of the best books in those classes. Equally important is the filling up of sets of periodicals. One hundred and two volumes of *The Edinburgh Review*, and seventy-one volumes of *The North American Review* were bought last year. We need to make complete many other sets of magazines which are much in demand for reference work. Two hundred volumes were purchased from the Dean fund, all treating of scientific and technological subjects, and a large proportion relating to electricity, engineering, and textile manufactures, subjects of special interest to our citizens.

## CLASSIFICATION AND CATALOGUE.

Great progress has been made upon this part of the work during the year. Six thousand nine hundred and twenty volumes were classified according to the new system, and seven thousand two hundred and ninety-three volumes were catalogued. There are now systematically arranged on our shelves, according to their subjects, all the books belonging to the following classes: Fiction, Biography, History, Geography and Travels, Natural Science, Useful Arts, and Fine Arts. Literature is well begun, and when it is finished there will remain only Philosophy, Religion, Social Science, and some reference books to be done. By actual count of the volumes, very nearly one half of the library is completed, and the half to be done includes many long sets of magazines, the newspapers, and the government documents, which will not consume the amount of time in classifying and cataloguing that has been occupied by the half already done. During the summer the thousand volumes belonging to the Dean Purchase, together with the two hundred recent additions, were classified and catalogued. As this will become in time a large collection of technical works in science and useful arts, it was deemed best to classify the books very closely, and this was perhaps the most difficult work to be done in connection with the re-arrangement of the library.

## SCHOOL WORK.

The same privileges have been given to the teachers in the public schools as in the preceding year. When this work was begun it was impossible to foresee what books would be most needed for the pupils. Now that it is known what are the most useful books, it would be of

great assistance to the teachers if a small sum of money could be devoted to the purchase of duplicates. Several teachers often want the same book at the same time, to be used in their history and geography classes, and if the library could furnish several copies of such books as Coffin's and Knox's, much more could be accomplished with the schools than is now possible.

#### BUILDING.

Some small repairs have been made on the library building by the land and buildings committee, chief among them being the painting of the outside woodwork and of the walls of the vestibules. The most pressing need at present is more of the linoleum carpeting, which has proved so satisfactory in that part of the library in which it is used. The aisles and some of the alcoves of the book room should be covered with it; and if the entire floor of the delivery and reading rooms could also be covered, it would add much to the comfort of those who use the library. The floor has become so worn with the use of many years, that it is impossible to keep it well swept and washed; and the bookcases are so exposed that the books receive much of the dust necessarily raised by sweeping. The linoleum could be kept clean with much less dust arising from it. Thus our books would be the gainers, as well as our readers, who would no longer be disturbed by the sound of heavy boots on the uneven floor. With the number of people using the library constantly on the increase, the inadequate provision made for them in the way of reading and reference rooms becomes more and more apparent. The present reading room is often filled to its utmost capacity, and it is neither an attractive nor comfortable place. As the mayor said in his recent inaugural address, until the

library is provided with a large, well-lighted reading room, and a convenient reference room, the "institution will never attain its full measure of popularity and educational value."

## GIFTS.

Our collection of portraits of distinguished men of the city has been augmented by the portrait of Dr. W. W. Brown, which was given to the library by the will of his widow. Ex-Governor Currier, to whose generosity the library owes its French and German books, is about to present to us a well-selected collection of Swedish books. As the books are not yet actually purchased, however, this note will more properly belong to the report for 1897.

Following this report is a list of the donors of books and pamphlets presented to the library during the year.

Respectfully submitted.

KATE E. SANBORN,

*Librarian.*

JANUARY, 8, 1897.

## DONATIONS TO THE CITY LIBRARY.

---

	Books.	Pamph.
Abbott, S. A. B.....	1	
Aguilar Free Library, New York City....		1
Amherst College.....		1
Apprentices' Library, Philadelphia, Pa..		1
Baillie's Inst. Free Library, Glasgow....		1
Balch, E. S.....		1
Balch, T. W.....	1	
Baldwin, E. T.....	1	
Benton, J. H., Jr.....		1
Bigelow Free Public Library, Clinton, Mass.....		1
Boston, Mass.—Public Library.....		3
Bridgeport, Conn.—Public Library.....		1
Brookline, Mass.—Public Library.....		1
Brooklyn, N. Y.—Library.....		1
Brooklyn Ethical Association.....		1
Cambridge, Mass.—Public Library.....		1
Chicago, Ill.—Public Library.....		1
Chicago University.....	1	
Children's Aid Society, New York.....		1
Cincinnati, Ohio—Public Library.....		1
Civil Service Reform Associaton.....		1
Cleaves, George P.....	2	2
Cleveland, Ohio—Public Library.....		1



Cooke, J. P.....	1	
Crocker, U. H.....	1	
Demarest, Rev. G. L.....	2	
Detroit, Mich.—Public Library.....		1
Dover, N. H.—Public Library.....		2
Eggleston, Dr. T.....	1	
Enoch Pratt Free Library, Baltimore, Md		1
Fall River, Mass.—Public Library.....		1
Field Columbian Museum, Chicago, Ill...		2
Fitz Public Library, Chelsea, Mass.....		1
Fletcher Free Library, Burlington, Vt...		1
Forbes Library, Northampton, Mass.....		1
French, J. C.....		1
Friends' Free Library, Germantown, Phila.....		1
Fuller, E. N.....	3	
Gildehaus, C.....	1	
Gould, S. C.....		1
Grand Rapids, Mich.—Public Library....	2	
Harvard University.....	2	1
Howson and Howson.....	1	
Jamaica Agricultural Society.....		1
Jersey City, N. J.—Free Public Library..		1
La Crosse, Wis.—Public Library.....	1	
Lancaster, Mass.—Town Library.....		1
Lawrence, Mass.—Public Library.....		1
Library Co. of Philadelphia.....		2
Lord, C. C.....	1	
Lynn, Mass.—Public Library.....		1
McNamee, J. H. H.....		1
Maimonides Free Library, New York City		1
Malden, Mass.—Public Library.....		1
Manchester.—Board of Health.....	1	1
“ Chief Engineer Fire De- partment.....		1

Manchester.—City Auditor.....	1	
“ City Clerk.....	1	
“ Water Commissioners....		1
Massachusetts.—Bureau of Statistics of Labor.....	2	
Massachusetts Institute of Technology..		3
Medford, Mass.—Public Library.....		1
Melrose, Mass.—Public Library.....		1
Milwaukee, Wis.—Public Library.....		1
Minneapolis, Minn.—Public Library....		1
Missouri Botanical Garden.....		1
Moore, W. E.....		1
Morse Institute Library, Natick, Mass...		1
Mount Holyoke College.....		1
Munson, M. A.....		1
Nashua, N. H.—Mayor.....	1	
National Divorce Reform League.....		2
New England Society in Brooklyn.....		1
New Hampshire.—Insurance Commis- sioner.....	1	
“ “ Library Commission...		2
“ “ Railroad Commission.	1	
“ “ Secretary of State....	8	
“ “ State Library.....	1	1
New Haven, Conn.—Public Library.....		3
New York City.—Mercantile Library....		1
Newark, N. J.—Free Public Library....		1
Newton, Mass.—Free Library.....		1
Ohio.—State Library.....	1	
Peabody Institute, Baltimore, Md.....		1
Pennsylvania College of Dental Surgery..		1
Pennsylvania Prison Society.....		1
Peoria, Ill.—Public Library.....		1
Portland, Maine.—Public Library.....		1
Poughkeepsie, N. Y.—City Library.....		1

Providence, R. I.—Public Library.....		1
Robbins Library, Arlington, Mass.....		1
Rogers, T. P. W.....		1
St. Laurent, C. F.....		1
St. Louis, Mo.—Mercantile Library.....		2
“ “ “ Public Free Library.....		1
Salem, Mass.—Public Library.....		2
San Francisco, Cal.—Free Public Library		1
“ “ “ Mercantile Library		
Association.....		1
Scranton, Pa.—Public Library.....		3
Seattle Library Commission.....		1
Securities Co., Philadelphia.....	1	
Somerville, Mass.—Public Library.....		1
Southbridge, Mass.—Library.....		1
Springfield, Mass.—City Library Associa-		
tion.....		1
Syracuse, N. Y.—Central Library.....		1
Tulane University of Louisiana.....		1
United States.—Bureau of Education...	8	
“ “ Labor Department.....	2	5
“ “ Smithsonian Institution	3	4
“ “ Supt. of Documents....	123	141
“ “ War Department.....	5	1
University of Pennsylvania.....		1
Unknown.....	1	9
Uruguay.....		1
Walker, A. H.....		1
Walker, H. E.....		1
Wheeler, J.....		1
Wilmington Institute Free Library.....		1
Woburn, Mass.—Public Library.....		1
Worcester, Mass.—Public Library.....		1
Y. M. C. Associations.....		2

## Periodicals Presented.

Boston Public Library Bulletin.

Case and Comment.

Catalogue of United States Public Documents.

Home Market Bulletin.

Jersey City Library Record.

Manchester.—Advertiser.

“ Echo (High School).

“ Emerald.

“ Union.

Manifesto.

Monthly Bulletin Bureau of American Republics.

Notes and Queries.

Official Gazette of United States Patent Office.

Plymouth Record.

Salem Public Library Bulletin.

Tennessee University Magazine.

Travelers' Record.

Veterans' Advocate.

REPORT  
OF THE  
OVERSEERS OF THE POOR.



# REPORT

## OF THE

### OVERSEERS OF THE POOR.

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*To His Honor the Mayor and Gentlemen of the City Councils:*

In compliance with the ordinance of said city, the Overseers of the Poor herewith present their annual report for the year 1896:

The whole number of families that have received more or less assistance off the farm during the year has been one hundred and thirty-seven, consisting of four hundred and forty-one persons, all of whom have a settlement in this city. None of this number have died during the year. The whole number of paupers supported at the city farm during the year has been four, more or less of the time.

The whole number of paupers supported at the county farm during the year has been seven, more or less of the time.

The whole number of minor children supported at the State Industrial School during the year has been six.

In compliance with sections 1 and 2, chapter 116, Laws of the state of New Hampshire, passed at the January session, 1895, in relation to dependent minor children having a settlement in cities and towns, said dependent minor children having a settlement in this city are supported as follows:

At St. Patrick's Orphans' Home, Hanover street, six more or less of the time.

At Notre Dame de Lourdes Home, in charge of the Gray Nuns, West Manchester, four, more or less of the time.

At the Orphans' Home, Franklin, one minor child, more or less of the time.

At the residence of William Whelpley, No. 401 Cedar street, two minor children, more or less of the time.

At the residence of Agnes Masse, on Winter street, one minor child, more or less of the time.

At the residence of D. L. Robinson, Amoskeag, one minor child, all of the time.

All of the said dependent minor children have educational advantages.

The overseers of the poor have given and allowed eleven hundred and three orders to the paupers off the farm during the year. Said orders consisted chiefly of orders for groceries, fuel, medicine, board and clothing, care, and emergencies.

The whole amount allowed to the several persons who applied for assistance from time to time, from the several wards of the city, during the year, was as follows:

Ward 1.....	\$237.38	
Ward 2.....	40.00	
Ward 3.....	330.35	
Ward 4.....	1,199.21	
Ward 5.....	2,578.69	
Ward 6.....	1,024.07	
Ward 7.....	278.95	
Ward 8.....	973.98	
Ward 9.....	1,461.93	
	<hr/>	\$8,124.56



## MISCELLANEOUS BILLS ALLOWED.

State Industrial School, board of inmates .....	\$3,748.28	
Books and stationery .....	37.65	
		<hr/> \$3,785.93
Total amount .....	\$11,910.49	
Cash received from the county of Hillsborough and paid to the city treasurer .....	\$3,400.71	
		<hr/>
Total cost to the city .....	\$8,509.78	
And there are uncollected bills due the city amounting to seven hundred and fifty-six dollars and twenty-one cents.		

All of which is respectfully submitted.

WILLIAM H. MAXWELL, Ward 1,  
 THOMAS L. QUIMBY, Ward 2,  
 BENJAMIN F. GARLAND, Ward 3,  
 GEORGE S. HOLMES, Ward 4,  
 PATRICK COSTELLO, Ward 5,  
 CHARLES FRANCIS, Ward 6,  
 WILLIAM MARSHALL, Ward 7,  
 CHARLES S. McKEAN, Ward 8,  
 LEANDER S. BOIVIN, Ward 9,

*Overseers of the Poor for the City of Manchester.*

A true copy. Attest:

WILLIAM H. MAXWELL,  
*Clerk.*

---

Aid to Soldiers, Sailors, and their Dependent Families.

*To the Mayor and Gentlemen of the City Councils:*

In compliance with sections 1 and 2, chapter 81, Laws of the state of New Hampshire, passed at the June ses-

sion, 1881, in relation to indigent soldiers and sailors of the War of the Rebellion, the Overseers of the Poor herewith present their annual report under the head of "Aid to soldiers and sailors and their dependent families," for the year 1896.

The whole number of indigent soldiers and sailors who have had more or less assistance during the year has been six, consisting of six families, all of whom have a settlement in this city, at a cost of \$289.30.

All of which is respectfully submitted.

WILLIAM H. MAXWELL, Ward 1,  
THOMAS L. QUIMBY, Ward 2,  
BENJAMIN F. GARLAND, Ward 3,  
GEORGE S. HOLMES, Ward 4,  
PATRICK COSTELLO, Ward 5,  
CHARLES FRANCIS, Ward 6,  
WILLIAM MARSHALL, Ward 7,  
CHARLES S. McKEAN, Ward 8,  
LEANDER S. BOIVIN, Ward 9,

*Overseers of the Poor for the City of Manchester.*

A true copy. Attest:

WILLIAM H. MAXWELL,  
*Clerk.*

REPORT OF THE CITY SOLICITOR.



## REPORT OF THE CITY SOLICITOR.

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### *Gentlemen of the City Councils:*

The City Solicitor makes the following report for the doings of the year 1895:

Of the cases pending in court on January 1, 1896, that of *Carvelle v. Manchester* was adjusted between the plaintiff and Board of Water-Works Commissioners. *Clough v. Manchester*, being an appeal from damages awarded for land taken for Canton street, was tried before the county commissioners, and a verdict satisfactory to the defendant rendered, from which decision an appeal was taken by the plaintiff to the jury. The case was settled by the payment of the amount awarded by the county commissioners, with the addition of what it would have cost to have tried the case by jury; and the settlement is deemed an eminently satisfactory one. The other cases still stand upon the various dockets.

During the year, *John Stanton v. Manchester*, *John Sheehan v. Manchester*, and *Theresa Maier v. Manchester*, have been brought and are now pending in court. The Stanton and Sheehan cases are both for damages for personal injury received by the plaintiff while in the employ of the Board of Street and Park Commissioners, at work in a sewer trench. The Maier case is one for personal injuries received by being thrown from a carriage on South Main-street, over an embankment, where, the plaintiff claims, there was no suitable railing. \*

During the year many claims for damages for various causes of action have been investigated and adjusted, in connection with the Committee on Claims and the Mayor. The solicitor would say that of the cases pending against the city, eight are for damages arising from alleged damages to real estate, caused by the city's use of the water in Lake Massabesic and Cohas brook; and five are for damages for personal injuries to employees of the Street and Park Commission, received while working at their labor. This latter class of cases the solicitor hopes will all be disposed of without trial of any question, except the law involved, as the trend of decisions in this state, if followed, holds the city free from liability in such class of cases.

In addition to the management of the cases in court, the demands made upon the solicitor by the mayor and other city officials, and by the city councils and their various committees, have been numerous and varied; and each year the number of demands increases, and more time of the solicitor is required to be devoted to the performance of the duties of the office. Whatever duties have arisen, the solicitor has endeavored to perform to the best of his ability.

Expressing thanks for the courteous treatment from the members of the city government and the city officials, this report is

Respectfully submitted.

EDWIN F. JONES,

*City Solicitor.*

DECEMBER 31, 1896.

REPORTS  
OF THE  
TRUSTEES OF CEMETERIES  
AND  
CEMETERY FUNDS.





# REPORT

OF THE

## TRUSTEES OF CEMETERIES.

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### Pine Grove Cemetery.

The sub-trustees of the Pine Grove cemetery submit the following report:

During the year 1896 the Pine Grove cemetery has been cared for on the same general lines as have been followed the last few years. Many substantial improvements have been made, and the general appearance of the grounds permanently bettered. The rule adopted some time since, that no more lots should be sold until graded, has worked well, and is bringing about a greater uniformity in the looks of the lots; while the absence of walks results in an improved general effect. Twenty-three lots were sold in the lawns under perpetual care, showing that the preference for such lots is still marked, on the part of those who can afford to buy them. Thirty-four other lots were also sold during the year.

About the usual amount of work was done during the year in the ordinary care of the grounds; and in addition the following permanent improvements have been made. About three thousand feet of water-pipe, and eight hundred and fifty feet of sewer pipe have been laid, covering

what, it is believed, will be the needs of the cemetery for several years, so far as main water and sewer pipes are concerned; although every year connecting pipes and extensions to lots will have to be laid. Catch basins have been set in the southeast portion of the cemetery, where water has frequently covered the ground in springtime to the depth of fifteen inches; and their marked efficiency fully warrants a further expenditure for drainage by this means in the future.

The avenues and paths have been kept in a generally good condition. Wildey avenue has been concreted, and also a considerable length of gutters on several avenues has been concreted. Over five hundred yards of concrete were laid during the year. In certain portions of the cemetery, where there is a considerable slope to the avenues, there is need of concreting or of graveling to quite a depth, in order to put the avenues into a suitable condition, as in their present sandy state they are easily washed out by rains and thaws.

The section in the western part of the cemetery north of the main gates has been graded, making one of the greatest improvements in the appearance of the grounds in recent years. A part of Chapel Lawn has also been graded, and a number of lots sold therein; and this lawn and Riverside Lawn bid fair to equal Landscape Lawn as spots of beauty. Five triangular plots at the intersection of avenues have been laid out and set with shrubs, and settees placed therein, making much-needed places of rest for visitors, and, we think, adding to the appearance of the grounds. Shrubs have been planted about the entrances, the building has been painted outside, and the chapel improved and repaired. Six new settees were purchased, and four new iron drinking-fountains of ornamental design placed in different parts of the yard.

Five hundred and sixteen iron markers, of the design

approved by the last board, have been set in the "Field of Manesquo," to take the place of the marble markers; and when all the graves in the public grounds have been so marked, and the marble markers removed, the appearance of those sections will be vastly improved.

Altogether, the sub-trustees think that the work of the year has been satisfactorily done, and that this, the largest and most important cemetery in the city, is in a better general condition than ever before, and that our citizens may well be proud of the beauty, in site and in adornment, of this home of the dead.

EDWIN F. JONES,  
*For the Sub-Trustees.*

### Valley Cemetery.

The sub-trustees of the Valley cemetery respectfully submit the following report for the year 1896:

During the past year the work has been under the same general plan as has been followed the past few years. The following improvements have been made:

The stone steps on the west bank have been reset and concreted. The path from the bridge in the valley to the office has been concreted. A new foot-bridge has been erected, and the driving bridge at the west side of the valley has been repaired. Grading has been commenced on the west side. The lots have been renumbered, and iron numbers placed on each lot. A larger number of lots than usual have been graded.

#### MATERIAL USED.

Loads loam .....	89
Loads sand .....	250
Feet turf .....	2,200
Cords manure .....	2 1-3
Yards concrete laid .....	205

The following amount was collected and paid to the city treasurer:

For water.....	\$369.50
Care of lots.....	748.25
Sundries.....	383.56
Tomb fees.....	219.00
Interments.....	164.00
Removals.....	16.00
	<hr/>
	\$1,900.31

The sub-trustees think the work has been satisfactorily done, and the cemetery has been kept in a neat and tidy condition. The beautiful valley, with the plots of shrubs and flowers which have been planted, have helped to make this one of the most beautiful places known for the last resting-place of the dead.

Respectfully submitted.

S. P. CANNON,

*For the Committee.*

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### Amoskeag Cemetery.

The sub-trustees of the Amoskeag cemetery respectfully submit the following report for the year 1896:

There have been three burials in this cemetery since our last report. In addition to the regular work of mowing the lots and keeping the paths clean, which has been done in an efficient manner, sixty loads of gravel have been placed where needed for grading the paths; one hundred and forty-six feet of iron fence have been built; one hundred and sixty-six feet of one-and-one-half-inch water-pipe have been laid to the center of the cemetery, with two stand-pipes attached thereto; and the old fence has been kept in repair.

There are a few needs for the coming year that are so imperative as to warrant being placed in this report. In accordance with the recommendation of our last report, a beginning has been made in putting an iron fence around the cemetery. Not less than sixty feet should be added the coming season. At sometime in the past, for some unaccountable reason, the paths were dug out until in some places they were no longer paths, but ditches. The present superintendent has filled what he could with sand or gravel, that cost the city nothing but for the labor of hauling it. It is believed that now a small allowance in each annual appropriation should be made for such a purpose, that the aforesaid ditches may be filled more rapidly.

Applications have been made the past year for lots, but there were none to sell. The city is growing rapidly in that direction, and before many years a new burial ground, or an enlargement of this, will be an absolute necessity. Inasmuch as the Amoskeag Company has already laid out streets in the vicinity, and houses are liable to be built within a short distance at any time, it is deemed advisable to recommend that negotiations regarding the purchase of more land from the company be entered upon in the immediate future.

EBEN CARR,  
JAMES E. BAILEY,  
WILLIAM H. HUSE.

*Sub-Trustees of Amoskeag Cemetery.*

## TREASURER'S REPORT.

*To the Trustees of Cemeteries:*

GENTLEMEN,—I herewith present to you the annual report of the money received during the year ending December 31, 1896:

### Pine Grove Cemetery.

Number of deeds delivered during the year, fifty-eight.		
To cash received for the same.....	\$2,327.96	
interest received for the same..	15.96	
cash received from superintendent.....	2,781.41	
	<hr/>	\$5,125.33
CR.		
By treasurer's receipts.....	\$2,343.92	
superintendent's receipts.....	2,781.41	
	<hr/>	\$5,125.33

### Valley Cemetery.

To cash received from superintendent.....	\$1,900.31
CR.	
By superintendent's receipts.....	\$1,900.31

Respectfully submitted.

FRED L. ALLEN,

*Treasurer of Trustees of Cemeteries.*

I hereby certify that I have examined the accounts of Fred L. Allen, treasurer of the trustees of cemeteries, and find the same correctly cast and properly vouched for.

JAMES E. DODGE,

*Auditor.*

# REPORT

OF THE

## TRUSTEES OF THE CEMETERY FUND.

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*To the City Councils of the City of Manchester:*

GENTLEMEN,—The Trustees of the Cemetery Fund present their sixteenth annual report, including the report of the treasurer, showing in detail the administration of the fund for the year ending December 31, 1896.

The amount held for the benefit of lots in the respective cemeteries will be found therein stated, as well as the increase of the fund during the past year, which is highly gratifying.

The trustees have established the price requisite for the proper care of lots at forty cents per foot; the minimum, however, to be \$100 for any lot.

The price is fixed at this low figure in order that persons of limited means, as well as the rich, may avail themselves of the privilege of the perpetual care of the last and final resting-place of all mankind; but the committee believe that this sum wisely and economically administered, will satisfactorily answer the purpose intended.

Respectfully submitted.

WILLIAM C. CLARKE,

OTIS BARTON,

CHARLES H. BARTLETT,

*Trustees of Cemetery Fund.*

## TREASURER'S REPORT.

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*To the Trustees of the Cemetery Fund:*

GENTLEMEN,—I herewith submit to you the fourteenth annual report of the funds received and expenses paid to December 31, 1896:

### Pine Grove Cemetery.

Amount of permanent fund on hand January

1, 1896..... \$28,561.89

Receipts during the year:

From Mrs. James Morrison.....	\$165.00
M. E. Beard.....	115.20
George W. Dodge.....	165.91
Lewis M. Lull.....	92.98
E. C. Howlett.....	160.00
Mrs. L. M. Kendall.....	95.71
W. H. Griffin.....	166.50
George W. Barber.....	100.01
John, George, and Lizzie M. Porter.....	198.00
Annie B. F. Brown.....	200.00
J. Franklin Robinson.....	165.00
H. W. Oxford.....	140.25
Mrs. Alma Witters.....	109.90
Waldron Chase.....	126.10



From Iola A. Cushman.....	\$131.97	
James E. Blanchard.....	200.00	
Hannah D. Hall.....	253.60	
Mrs. Marshall P. Hall.....	316.20	
Charles W. Hanson.....	119.83	
Sarah S. Pattee.....	165.00	
Charles E. French.....	108.06	
David Perkins.....	182.06	
Mrs. O. S. Danforth.....	140.25	
Mary E. Crawford.....	144.00	
Josiah Carpenter.....	720.00	
Joseph Bean.....	144.00	
Calvin Boynton heirs.....	50.00	
	<hr/>	\$4,675.53

Total permanent fund Dec. 31, 1896.. \$33,237.42

Income on hand January 1, 1896...	\$2,104.28	
Income received during the year...	1,473.22	
	<hr/>	\$3,577.50

Expenses paid during the year:

Joseph Benoit.....	\$18.75	
John B. Varick Co.....	4.97	
John B. Varick Co.....	20.75	
John B. Varick Co.....	23.75	
Manchester S. & R. Co.....	40.00	
B. A. Stearns, superintendent....	712.00	
Cash on hand December 31, 1896..	2,757.28	
	<hr/>	\$3,577.50

### Valley Cemetery.

Amount of permanent fund on hand January 1, 1896..... \$9,977.23

Receipts during the year:

From Mrs. Mary D. Perkins..... \$100.00

From S. E. Fitch.....	\$115.20	
Mrs. E. R. Balch.....	488.40	
J. C. Bickford, adm'r.....	200.00	
Mrs. L. W. Nourse.....	115.20	
C. T. Allen, adm'r James Mitchell estate.....	150.00	
S. Josephine Butterfield....	120.00	
Martha W. Brown estate...	500.00	
Caroline I. Shattuck and Annie S. Griffin.....	144.00	
Mrs. Harriet K. Prime.....	108.00	
Mrs. Joseph H. Haines.....	200.00	
	<hr/>	\$2,240.80

Total permanent fund Dec. 31, 1896... \$12,218.03

Income on hand January 1, 1896...	\$858.23	
Income received during the year...	505.09	
	<hr/>	\$1,363.32

Expenses paid during the year:

C. H. G. Foss, superintendent.....	\$293.18	
Cash on hand December 31, 1896..	1,070.14	
	<hr/>	\$1,363.32

#### GALE FUND, VALLEY CEMETERY.

Amount of income on hand Janu- ary 1, 1896.....	\$104.49	
Interest received during the year..	13.16	
	<hr/>	\$117.65

Expenses paid during the year:

Care of lot.....	\$6.00	
Painting fence around Gale and Ayer tomb.....	8.20	
Cash on hand December 31, 1896..	103.45	
	<hr/>	\$117.65

**Piscataqua Cemetery.**

Amount of permanent fund on hand January 1, 1896.....	\$300.00	
Received from Charles K. Walker.....	50.00	
	<hr/>	
Total permanent fund Dec. 31, 1896...	\$350.00	
Income on hand January 1, 1896..	\$58.08	
Income during the year.....	15.00	
	<hr/>	\$73.08

CR.

By cash on hand December 31, 1896.....	\$73.08
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**MARY P. HARRIS FUND.**

Amount of fund January 1, 1896.....	\$500.00
Total permanent fund Dec. 31, 1896...	\$500.00
Income received from John K. McQuesten....	\$289.33
Cash on hand December 31, 1896.....	\$289.33

**Merrill Cemetery.**

Amount of fund January 1, 1896.....		\$487.89
Total permanent fund Dec. 31, 1896....		\$487.89
Income on hand January 1, 1896..	\$32.83	
Income received during the year..	25.49	
		<hr/>
		\$58.32

Expenses paid during the year:

Joseph Pelleron.....	\$6.00	
B. A. Stearns, superintendent....	6.00	
Palmer & Garmon.....	3.00	
Cash on hand December 31, 1896...	43.32	\$58.32
	<hr/>	\$58.32

Respectfully submitted.

FRED L. ALLEN,

*Treasurer of Cemetery Fund.*

This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the cemetery funds, embracing the receipts and expenditures for the year 1896, and I find the same correct and properly vouched. I have also examined the securities in which said fund is invested, and find as follows:

## PINE GROVE CEMETERY.

Bonds of the city of Manchester, N. H.

5 per cent, 1913.....	\$14,700.00
5 per cent, 1942.....	16,000.00
Cash on hand.....	2,537.42

Total amount of bonds and cash December 31, 1896..... \$33,237.42

## VALLEY CEMETERY.

Bonds of the city of Manchester, N. H.

5 per cent, 1913.....	\$4,800.00
5 per cent, 1942.....	6,000.00
Cash on hand.....	1,418.03

Total amount of bonds and cash December 31, 1896..... \$12,218.03

## PISCATAQUOG CEMETERY.

Bonds of the city of Manchester, N. H., \$300.00.

Cash on hand.....	50.00
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Total amount of bonds and cash December 31, 1896..... \$350.00

*Mary P. Harris Fund.*

Bonds of the city of Manchester, N. H.

6 per cent, 1897.....	\$500.00
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## MERRILL CEMETERY.

Bonds of the city of Manchester, N. H.

5 per cent, 1913.....	\$200.00
5 per cent, 1942.....	250.00
Cash on hand.....	37.89

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Total amount of bonds and cash December 31, 1896.....	\$487.89
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Total permanent fund Dec. 31, 1896... \$46,793.34

JAMES E. DODGE,

*Auditor.*

MANCHESTER, N. H., Dec. 26, 1896.

John K. McQuesten respectfully submits the following statement of account as trustee of funds for the care of Piscataquog cemetery:

Charges himself as follows:

November 7, 1891, amount on bank-book at Manchester Savings Bank.....	\$218.82
July 1, 1892, interest on same.....	8.63
July 1, 1893, interest on same.....	6.56
1894, interest on same.....	5.89
January 1, 1895, interest on same.....	7.64
1897, interest on same.....	11.91
Interest on bonds 1892, '93, '94, '95, and '96...	150.00
	<hr/>
	\$409.45

Cr.

By expenditures.....	\$120.12
By cash on hand.....	289.33
	<hr/>
	\$409.45

And claims the following credits as per vouchers, viz.:

May 9, 1892, R. P. Stevens & Co.....	\$5.75
May 9, 1892, N. E. Fullerton.....	1.00
July 1, 1892, T. A. Lane.....	82.87
December 30, 1894, C. A. Rowell.....	1.50
June 8, 1895, L. & W. T. Seiberlich.....	4.33
June 24, 1895, Bixby & Wilson.....	4.97
June 4, 1895, Head & Dowst.....	19.70
January 1, 1897, cash in bank.....	284.35
January 1, 1897, cash on hand.....	4.98
	<hr/>
	\$409.45

AUDITOR'S OFFICE, December 26, 1896.

I hereby certify that I have examined the within account, and the same is correct.

JAMES E. DODGE,  
*Auditor.*

REPORT  
OF THE  
TRUSTEES OF THE SINKING FUND.





# REPORT

## OF THE

### TRUSTEES OF THE SINKING FUND.

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*To the Trustees of the Sinking Fund:*

GENTLEMEN,—I herewith transmit to you the fourth annual report of the receipts of this board for the year ending December 31, 1896.

DR.

Total amount of fund Jan. 1, 1896, for the payment of improvement bonds.....	\$10,222.65
Appropriation for 1895.....	10,000.00
Income received during the year...	606.50
	<hr/> \$20,829.15

CR.

By bonds on hand January 1, 1896	\$10,000.00
Bonds bought during the year.....	10,000.00
Premium on bonds.....	252.00
Cash on hand December 31, 1896..	577.15
	<hr/> \$20,829.15

DR.

Total amount of fund Jan. 1, 1896, for the payment of water bonds..	\$26,822.59
Water-works, hydrant service, 1895	15,800.00
Income received during the year...	1,378.33
	<hr/> \$44,000.92

Cr.

By bonds on hand January 1, 1896.	\$26,000.00	
Bonds bought during the year....	16,000.00	
Premium on bonds.....	403.20	
Cash on hand December 31, 1896...	1,597.72	
		<hr/> \$44,000.92

Respectfully submitted.

FRED L. ALLEN,  
*Treasurer Sinking Fund.*

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This is to certify that I have examined the books of accounts of Fred L. Allen, treasurer of the trustees of the sinking fund, embracing the receipts and expenditures for the year ending December 31, 1896, and find the same correct and properly vouched. I have also examined the securities in which said fund is invested, and find as follows:

For the payment of improvement bonds.

Bonds of the city of Manchester, N. H.:		
4 per cent, 1908.....	\$10,000.00	
4 per cent, 1913.....	5,000.00	
4 per cent, 1914.....	5,000.00	
Cash on hand December 31, 1896...	577.15	
		<hr/> \$20,577.15

For the payment of water bonds.

Bonds of the city of Manchester, N. H.:		
4 per cent, 1909.....	\$10,000.00	
4 per cent, 1910.....	6,000.00	
4 per cent, 1913.....	8,000.00	
4 per cent, 1914.....	18,000.00	
Cash on hand December 31, 1896..	1,597.72	
		<hr/> \$43,597.72

Total amount of sinking fund Dec. 31, 1896...	\$64,174.87
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JAMES E. DODGE,  
*Auditor.*

REPORT  
OF THE  
BOARD OF HEALTH.



## REPORT OF THE BOARD OF HEALTH.

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*To His Honor the Mayor:*

The following is submitted by the Board of Health as its report for the year 1896:

Dr. C. W. Downing having been re-appointed to succeed himself, the board organized by re-electing Dr. C. F. Starr as chairman, and William K. Robbins, M. Sec., as clerk. Early in the year Dr. C. F. Starr resigned on account of ill health, and William J. Starr was appointed to serve out his term of office. Dr. C. W. Downing was then elected chairman of the board to serve out the unexpired time of Dr. Starr.

### EXPENDITURES.

Salaries .....	\$620.83
Labor .....	2,740.01
Office furniture .....	35.82
Printing and advertising .....	209.25
Postage and envelopes .....	14.93
Team .....	59.50
Car fares .....	73.95
Board of team .....	102.74
Express .....	7.90
Telephone service .....	36.50
Gas .....	1.68
Legal expenses .....	16.74

Antitoxin.....	\$64.15
Diphtheria examinations.....	29.00
Disinfectants.....	50.33
Aid given families quarantined.....	36.65
Board, fuel, etc., for pest-house.....	37.35
Sundries.....	25.86
Total.....	<u>\$4,163.19</u>

## MEETINGS.

The regular weekly meetings begun last year have been continued, it having proved a convenience to the public to know that the board may be found at its office every Wednesday evening at 7 p. m. Besides this, a somewhat smaller number of special meetings have been held, and the usual number of trips of inspection have been made.

## INSPECTORS.

The same inspectors have been retained as during last year. The board felt that it was losing much of the value of Mr. Clough's services as an inspector and executive officer by keeping him in the office to attend to the granting of burial permits; so, in place of employing a man to give his whole time to the patrolling of Lake Massabesic, Miss Ethel A. Marston was employed to take charge of the office, thus relieving Mr. Clough, and giving the board two inspectors free from office duties. The work was therefore so arranged that, during the summer months, one or both of the inspectors should spend some part of each day at the lake. In this manner we believe the source of the city's water supply was guarded quite as well as usual.

Mr. Barry was retained as last year to give his special attention to the enforcement of the plumbing regulations.

## SEWERS.

The progress made during the year in putting in sewers is gratifying to the board, and we would suggest that special attention be given to the locality where there are springs, as in such, cesspools are of no avail, and troublesome nuisances result from attempts to use them. Especially is this the case in the southeastern part of the city.

## PLUMBING.

The administration of the plumbing rules has proceeded much the same as last year. While there is a better general voluntary compliance with the regulations, there are still some difficulties in the way of the best sanitary arrangement and location of the drainage of buildings. It is to be expected that in old buildings some concessions must be made in location; but it is very much to be regretted that, owing to the absence of building inspectors, new buildings are constantly being erected wherein the drainage is located where it may be put in cheapest, and will be as far as possible from frost.

The plumbing work in general has been more skillfully done, owing to the discontinuance of several parties who followed, but scarcely knew, the trade of a plumber.

## TENEMENT BLOCKS.

Fewer tenement blocks have required the attention of the board this year than usual, but there are still many that require constant watching, and some that the board will insist must be renovated soon.

## DISPOSAL OF WASTES.

The various dumps about the city have given the board more than the usual work this year; not that they are any worse than usual, they have always been decidedly bad,

but because houses are being erected on or near them. The board is fully convinced that all the dumps now in use should be discontinued at once, and it will use every legitimate means to bring this about. The time has arrived when our general wastes must be disposed of, either by burning or by removal far out of the city, and we would recommend that, until a crematory can be installed, a contract of some kind be made with the Boston & Maine Railroad to remove the wastes by rail. For this purpose, cars specially fitted could be left at various parts of the city to receive the waste, and could be taken off to some distant swamp or waste land each day. The present arrangement for collecting the garbage, with some slight amendments, will give satisfaction for a while.

First, the ordinance requiring swill and other matters kept separate by the householders, should be rigidly enforced; and second, the private swill-gatherers should be put under control. At present, they roam about the city, taking any desirable swill they find, with no uniformity of time or manner. It will be taken from some houses so long that the city farm teams will discontinue looking for it, and then it will be left, and complaint made. Again, it often happens that several different swill teams will go through the same back street the same day, or even the same hour. This board would recommend that an ordinance be passed requiring all private swill-gatherers to be licensed by the Health Department, said license being revokable when all regulations are not properly observed. In such case we could prescribe the vessels and vehicles for transportation, and manner and time of gathering. For instance, if Mr. A. wants to take the swill of Smith and Jones in one back street or block, he must also take that of Brown and whoever else lives in that district, so that no team other than that of Mr. A. will cover that



territory. In such a manner a very considerable saving of territory covered by the city farm team would be made, and at a corresponding economy; also the number of swill teams frequenting a given locality would be reduced to one.

#### CONTAGIOUS DISEASE HOSPITAL.

The large number of contagious diseases during the year has impressed upon us anew the need this city has for a proper place of refuge for these diseases. The improper location of the place now used for such purposes was deeply impressed upon us during this summer, when we found it necessary to remove a case of varioloid from a hotel, and put it in the most popular public park of the city. We would again most earnestly urge upon your Honor, and through you the city councils, the great and immediate need of a contagious disease hospital.

The following tables show the number of cases of contagious and infectious diseases reported during each month of the year, and the deaths resulting therefrom; also the average number of cases and deaths for the past twelve years, which is put in for the purpose of comparison:

MONTHS.	Membraneous croup.		Diph- theria.		Typhoid fever.		Measles.		Scarlet fever.		Vario- loid.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
January ....	.....	.....	2	1	10	3	.....	.....	9	1	.....	.....	21	5
February...	.....	.....	1	.....	12	5	1	.....	9	.....	.....	.....	23	5
March.....	1	1	2	.....	9	3	1	.....	10	.....	.....	.....	23	4
April .....	2	1	2	.....	6	1	7	.....	1	.....	.....	.....	18	2
May .....	.....	.....	1	.....	4	.....	8	.....	2	.....	.....	.....	15	.....
June .....	1	1	.....	.....	8	1	31	1	2	.....	1	.....	43	3
July .....	.....	.....	.....	.....	2	2	27	1	4	.....	.....	.....	33	3
August.....	1	.....	2	1	6	1	19	.....	3	.....	.....	.....	31	2
September..	.....	.....	8	1	10	.....	6	.....	2	.....	.....	.....	26	1
October.....	4	4	28	7	7	1	61	.....	6	.....	.....	.....	106	12
November..	4	4	19	3	1	1	93	.....	8	.....	.....	.....	125	8
December..	4	3	38	15	6	2	246	1	5	.....	.....	.....	299	21
Totals ...	17	14	103	28	81	20	500	3	61	1	1	.....	763	66

YEARS.	Membranous group.		Diphtheria.		Typhoid fever.		Measles.		Scarlet fever.		Varioloid.		Totals.	
	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.	Cases.	Deaths.
1885.....	*	*	*	18	*	20	*	5	*	36	*	....	*	79
1886.....	*	*	*	9	*	12	*	....	*	5	*	....	*	26
1887.....	*	*	73	17	28	18	94	4	*	9	....	....	*	48
1888.....	*	*	126	30	35	12	44	1	187	9	....	....	392	52
1889.....	*	*	79	23	36	16	259	5	54	4	....	....	428	48
1890.....	*	*	41	9	36	17	63	3	298	6	....	....	438	35
1891.....	*	*	21	2	76	18	25	....	89	2	....	....	211	22
1892.....	*	*	26	5	33	11	44	2	451	11	....	....	554	29
1893.....	*	*	7	1	79	15	110	5	212	2	....	....	408	23
1894.....	12	12	42	11	74	21	67	3	223	8	....	....	418	55
1895.....	17	11	47	11	73	21	55	4	68	1	....	....	260	48
1896.....	17*	14	103	28	81	20	500	3	61	1	1	....	763	66

\* No returns made during this year.

Inspection of these tables will reveal the fact that the number of contagious diseases is much larger than for several years. It will be noticed that the increase is due principally to the greater number of cases of measles and diphtheria. One probable reason for the excessive number of cases of measles is doubtless want of isolation of patients. Many people seem to have a strange prejudice against the placarding of their premises, and as this disease is usually not considered dangerous, in many cases no physician was called. The people ignorantly or willfully failed to report the cases, and from such, of course, the public had no protection. It is a relief to know that the death-rate from this disease has been very low.

Diphtheria has, during the year, especially the latter part, been very prevalent. There have been reported to

the board 120 cases, with a mortality of 42, a fraction over 30 per cent. The board has been vigilant in trying to suppress the disease; with what result, no one can tell; but it is safe to say that something has been accomplished by isolation, quarantine, and disinfection. There has seemed to be no common cause of the disease, as nearly all sections of the city have suffered. We have feared that the dumps, which are a standing menace, while not directly responsible, have, in some instances, aggravated the malady. The serum treatment of the disease, which may still be regarded as *sub judice*, is still sufficiently recognized to warrant the board in keeping on hand reliable antitoxin, which is furnished to physicians at cost for such of their patients as are able to pay for it; to those unable to pay for it, it is furnished gratis. We think a few lives have been saved by its timely use.

Of the other diseases there have been about the usual number. Measles is placarded, but not quarantined. Scarlet fever and diphtheria, however, are maintained by the board in strict quarantine as nearly as practicable.

The special item, for use in aid of destitute families, in the appropriation this year, was most timely, as the quarantine left many people in need of the necessities of life, and these were furnished by the board upon investigation, nothing being paid for except what was ordered specifically by the inspectors. The board feels that in this way much suffering has been relieved, and that the spread of the disease has been materially checked.

#### DISINFECTION.

During the year the board has had constructed a lamp, invented by Prof. F. C. Robinson, which generates formaldehyde gas from methyl alcohol, or "wood spirit." This gas is generally conceded to be more effective as a disinfectant than sulphur fumes, and at the same time

less liable to injure fabrics and colors. This method of fumigation has, therefore, been in use the latter part of the year. It costs more than sulphur, hence the expense for disinfectants is somewhat increased.

#### DEATH RETURNS.

In the granting of burial permits we have insisted upon more careful statements of the causes of death, and although this has at times entailed some extra labor upon undertakers and physicians, we think the accuracy of our statistics upon this subject justifies the extra pains and bother.

## DEATH RETURNS.

TABLE SHOWING THE MORTALITY OF THE CITY BY DISEASES  
AND BY MONTHS FOR THE YEAR 1896.

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Accident, broken neck . . . . .							1	1					1
“ burns . . . . .							1						1
“ concussion of brain . . . . .	1												1
“ drowned . . . . .		1	1		1	1		1	1		1	2	8
“ fall . . . . .		1			1			1					3
“ fract're of skull . . . . .						1	1				1	1	4
“ injury to spine . . . . .						1							1
“ internal inj'ies . . . . .								1				1	2
“ poisoning by opium . . . . .						1							1
“ run over by railroad cars . . . . .	1					2							3
“ run over by electric cars . . . . .						1							1
“ suffocation . . . . .	1												1
Albuminuria and obstruction of bowels . . . . .		1											1
Addison's disease . . . . .					2								2
Alcoholism . . . . .					1								1
Anæmia . . . . .	2								2				4
Aneurism of mesenteric artery . . . . .				1									1
Angina pectoris . . . . .					1			1					2
Appendicitis . . . . .					1								1
Apoplexy, cerebral . . . . .	2	1	1		3	1	1	1	2	3	2	1	18
Asphyxia . . . . .		1											1
Asthenia . . . . .		1											1
Asthma . . . . .	1						2					1	4
Athrepsia . . . . .								1					1
Bladder, tumor of . . . . .											1		1
Bone, caries and complications . . . . .											1		1
Bowels, inflammation of . . . . .								2					2
“ obstruction of . . . . .	1			1				1				1	4
“ tuberculosis of . . . . .									1				1
Brain, abscess of . . . . .						1				1			1
“ congestion of . . . . .		3	2	3		3	1		1				13
“ disease of . . . . .					1								1
“ inflammation of . . . . .	3	1		1								1	6
“ softening of . . . . .		1							1				2
“ tumor of . . . . .		1											1
Bright's disease . . . . .			1	2	2								5
“ “ chronic . . . . .		3		1	3						3		10







TABLE.—*Continued.*

CAUSES OF DEATH.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Total.
Pharyngitis.....	1												1
Phthisis, pulmonary...	5	15	14	12	14	5	11	6	14	7	7	6	116
Placenta previa.....										1			1
Pleurisy, purulent.....										1			1
Pneumonia.....	7	3	5	4	7	4	3		3	8	5	12	61
“ broncho.....	1			1	1		1	1	1		1	2	9
“ & heart dis- ease.....		1											1
“ & paralysis.....		1										1	2
“ pleuro.....								1		1			2
“ typhoid.....	1	1											2
Poisoning, ac'te alc'holic.....						1							1
Premature birth.....	1		4		2	2	4					1	14
Prostration, nervous.....						1	1						1
Pyæmia.....			1			1			1				3
Rectum, stricture of.....				1									1
Rheumatism, acute.....					1								1
“ muscular.....			1										1
Sclerosis, posterior spin'l.....	1												1
Scrofulosis.....				1	1	1							1
Septicæmia.....													2
Shock, from operation.....					1								1
Spina bifida.....		1											1
Stillborn.....	7	3	10	7	8	8	8	3	7	7	10	7	85
Stomach, abscess of.....						1							1
“ hemorrhage of.....									1				1
“ ulceration of.....			1								1		2
Snicide, hanging.....		1				2		1					4
“ knife wound.....										1			1
“ shooting.....		1											1
Sunstroke.....								1					1
Syphilis, congenital.....									1				1
“ hereditary.....		1									1		2
Tetanus, traumatic.....	1												1
Tuberculosis.....	1	1				1						2	5
“ of bowels.....			1										1
“ of septicæ- mia.....						1							1
Ulcer, gastric.....										1			1
“ of leg.....						1							1
Unknown.....	1	1		3	2		1				2	1	11
Uræmia.....		2							1			1	4
Totals.....	73	80	91	99	101	74	135	108	98	91	86	100	1136

## SOME COMPARISONS OF VITAL STATISTICS FOR THE LAST TWELVE YEARS.

	1885.	1886.	1887.	1888.	1889.	1890.	1891.	1892.	1893.	1894.	1895.	1896.
Population, estimated.....	37,884	39,032	40,215	41,433	42,689	44,126	45,500	48,000	50,000	55,000	55,000	56,000
No. deaths, exclusive of still-births.....	733	725	708	853	764	901	880	963	971	977	1,020	1,051
Deaths, per thousand of population.....	19.35	18.57	19.84	20.59	17.90	20.40	19.34	20.06	19.42	17.76	18.54	18.77
Deaths of children under five years.....	312	313	356	397	333	434	393	500	527	546	549	531
Ratio, deaths of children to total deaths, per cent.....	42.56	43.17	44.61	46.54	46.20	48.17	44.66	51.42	50.62	55.89	53.82	50.52
Deaths of children per thousand of population.....	8.21	8.02	8.85	9.58	8.27	9.87	8.61	10.42	10.54	9.91	9.98	9.48
Deaths from zymotic diseases.....	231	205	256	227	199	252	181	153	137	209	213	227
Deaths from zymotic diseases, per thousand of population.....	6.10	5.25	6.37	5.48	4.66	5.72	3.98	3.18	2.74	3.80	3.97	4.05
Cholera infantum.....	89	115	148	115	86	141	122	103	89	40	146	129
Consumption.....	93	109	93	169	79	94	84	89	79	74	76	112
Group.....	12	21	25	24	25	15	7	3	4	24	14	20
Diphtheria.....	18	9	17	30	23	9	2	5	1	11	10	28
Scarlet fever.....	29	11	29	37	35	38	38	39	44	56	59	51
Pneumonia, all forms.....	42	26	39	45	38	58	72	39	53	81	86	77
Measles.....	40	37	45	23	47	43	38	48	46	52	75	77
Heart disease, all forms.....	5	.....	4	1	5	3	.....	2	5	3	4	1
Scarlet fever.....	20	12	17	12	16	17	18	11	15	8	21	19
Typhoid fever.....	36	5	8	9	4	6	2	11	9	4	1	3
Measles.....	11	3	1	5	6	4	5	.....	2	.....	2	.....
Whooping cough.....	3	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Smallpox.....	1,106	1,207	1,391	*830	*872	*965	*985	1,178	1,491	1,247	1,440	1,714
Births reported.....	29.19	30.42	34.59	.....	.....	.....	.....	.....	.....	.....	.....	.....
Births per thousand of population.....	404	451	473	439	506	463	549	637	650	616	599	652
Marriages reported.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....

\* The returns are manifestly incomplete.

The number of deaths of children under five years of age is still unreasonably large, and the usual cause of death is preventable by sufficient and proper care and feeding. The board has given what encouragement it could to the use of sterilized milk. In this connection we are impressed that material aid in the direction of wholesome food for children might be secured by a more vigorous inspection of milk sold in this city. As the business is at present conducted, milk may well be considered as a dangerous source of food. The inspection of it should extend to the very source of production, and all milk refused sale in the city, where the health of the cattle and cleanliness of the stable is not first-class. In this matter the health department is powerless, as the inspection of milk is at present beyond our jurisdiction.

In conclusion, we would express our thanks to your Honor, the city councils, and many citizens who have given us encouraging and timely assistance.

C. W. DOWNING, M. D.,  
WILLIAM K. ROBBINS,  
WILLIAM J. STARR,

*Board of Health of Manchester.*

## INSPECTORS' REPORT.

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*Gentlemen of the Board of Health:*

We beg leave to submit the following as the report of the sanitary inspectors for the year 1896:

Vaults and privies inspected.....	646
Vaults inspected after cleaning.....	625
Water-closets inspected.....	2,359
Yards and alleys inspected.....	1,952
Cellars inspected.....	1,599
Barns and outbuildings inspected.....	82
Tenements inspected.....	382
Barn cellars inspected.....	271
Latrines inspected.....	16
Teams and riggings of excavators inspected....	13
Soaperies, slaughter-houses, etc., inspected.....	14

Cleaning or repairs were ordered as follows:

Vaults and privies cleaned.....	107
Yards and alleys cleaned.....	367
Cellars cleaned.....	479
Barn cellars cleaned.....	21
Barns, etc., cleaned.....	17
Tenements cleaned.....	42
Water-closets cleaned or repaired.....	398
Vault covers repaired.....	24
Leaky drainpipes repaired.....	36

Openings other than leaks in the drainage system were found in 64 places, and same were closed by order of the

department. One thousand three hundred and three sinks have been examined, and 603 have been provided with traps.

Sewerage was found running on the surface of the ground in 73 places, and such nuisances were abated either by entering the sewer or carrying away in some manner not offensive.

In doing the work of the department it has been necessary to make 2,357 calls, and to write 1,209 letters.

Three hundred and ninety-eight complaints have been investigated. In 269 cases the inspectors have been able to give relief, and in 129 cases it was found that no cause existed, or that same was beyond the control of the department.

Thirty-eight dead animals have been properly disposed of.

One hundred and seventy-six hens and small animals have been removed from cellars.

One hundred and forty-five swine and cows have been discovered being kept within the sanitary limits of the city, without licenses. Same were ordered removed or licenses procured.

Twelve complaints were made against the scavenger service; in each case the proper parties were notified and relief afforded.

Eleven persons were discovered throwing garbage in the back street, and were warned against the practice.

Private swill collectors have been notified seventeen times to be neater in their work.

Eighteen catch-basins or street cesspools have been flushed or repaired by order of this department.

Eighty-eight notices have been prepared and served, and proper returns made.

A sanitary inspection has been made of 25 bakeshops.

Two theaters were ordered cleaned and put into proper sanitary condition.

Circus grounds have been inspected six times, and nuisance abated once.

Stable bedding was found in back street in 19 places, and ordered removed.

The dumps have been inspected 72 times, and nuisances there to the number of 4 abated by the street department.

One hundred and fifty-six nuisances not otherwise classified have been abated through the efforts of this department.

Thirty-three samples of water secured from Lake Massabesic and springs and wells about the city, have been sent away for analysis.

Householders have been given 26 permits to clean their own vaults.

Permits to the number of 1,347 have been granted for the burial or removal of dead bodies, and the returns forwarded to the city registrar.

A statement of mortality has been prepared each month, and copies sent to over two hundred other towns and cities, to local physicians, etc.

Contagious and infectious diseases have been reported as follows: Measles, 500; diphtheria, 103; typhoid fever, 81; membranous croup, 17; varioloid, 1; total, 763. six hundred and forty-one of these cases were reported by physicians, 48 by householders, and 74 were discovered by the inspectors. The inspectors were unable to trace the cause in 413 cases; in 308 cases the connection with some previous case was clearly traceable. Colds were the probable cause in 22 cases; 5 cases were contracted outside of the city; and in 15 cases it was reasonable to attribute the cause to unsanitary surroundings.

In 110 cases disinfectants were being used. The inspectors ordered their use in 153 cases. At most of these latter places instructions were given as to their use, and in many cases the department furnished the disinfectants.

In 59 cases patients were found well isolated, and in 182 cases inspectors were obliged to order isolation. In nearly all of these cases it was necessary for the inspectors to give instructions as to the steps to be taken.

Nine houses were watched to see that the rules of isolation were complied with; and 14 funerals were attended to prevent a too public observance of the same.

Fifty houses where disease had existed were fumigated by the inspectors.

Ninety-seven children who were attending school, and 86 people who were working and living in houses where contagious disease existed, were either restrained from attending school and employment, or instructed as to thorough isolation from the disease until all danger from contagion had passed.

Four cases have been cared for at the contagious disease hospital.

Four hundred and seventy-six houses have been placarded, and the placards removed at the termination of the disease.

About 2,500 pamphlets issued by the State Board of Health have been distributed in the localities where contagious disease existed.

Weekly reports of contagious and infectious diseases have been sent to the State Board of Health, Concord, and the United States Marine Hospital service, Washington, D. C.

The inspectors have each in turn patrolled the shores of Lake Massabesic, Sundays, holidays, and part of every other day from June 1 to October 1.

Thirty-three people who were found bathing in the lake were driven out and warned not to enter it again.

One hundred and eighteen dead fish were removed from the lake or its shores, and buried. Two cows were driven out of the water.



Nine persons were warned as to the disposal of sink-water.

Two parties were caught washing clothes in the lake, and one throwing washing water in the lake. Both were reprimanded and warned.

A pile of garbage found on the shore of the lake was burned. One party was restrained from throwing old pipe into the water. One privy was ordered cleaned.

Nuisances to the number of 14, not otherwise classified, were abated.

Several picnics and band concerts were attended, to prevent the careless disposal of waste and rubbish in the lake or on its shore.

Banana skins, sawdust, tin cans, paper, and rubbish of all sorts, have been removed whenever found.

The inspection of plumbing has, as during the last two years, been attended to by Richard J. Barry, with the following results:

Number of jobs reported.....	798
tank water-closets.....	1,062
pressure closets.....	73
Kelley & Genesee closets.....	20
sinks.....	662
bath-tubs.....	449
wash-bowls.....	358
wash-trays.....	78
slop-hoppers.....	8
urinals.....	4
Total number of fixtures put in.....	2,674

The pipe put in was tested with water in 697 places. At 15 places where water was not accessible, the smoke test was used in place of water.

A total of 2,289 inspections were made of the work during its progress and after its completion.



At 243 places work was found defective. In all such cases the defective work was removed and proper work substituted therefor.

In several cases plumbers were found trying to deceive the inspector, but in most cases the work has been more expertly done than in previous years, as several parties who were inclined to be dishonest, or were incompetent from lack of knowledge and experience, have discontinued the occupation.

The inspector has been to some trouble to secure from his reports the following statistics as to new buildings, which he thinks may be interesting:

Total number reported.....	156
Single tenement buildings.....	98
Two-tenement buildings.....	29
Three-tenement buildings.....	17
Four-tenement buildings.....	3
Six-tenement buildings.....	2
Eight-tenement buildings.....	1
Sixteen-tenement buildings.....	1

New schoolhouses, 2; large apartment block, 1; cracker factory, 1; freight depot, 1; and police patrol stable, 1.

The total value, according to his best judgment, is \$700,000.

The inspectors desire to express their thanks to the honorable board who have so ably directed their efforts; also to all who have aided them in the work of the department.

HERBERT S. CLOUGH,  
JOHN F. LOONEY.  
RICHARD J. BARRY.



GAS LIGHTS, OIL LAMPS, AND  
ELECTRIC LIGHTS.



## GAS LIGHTS, OIL LAMPS, AND ELECTRIC LIGHTS.

---

### Gas Lights in Use.

Clarke and Chestnut.  
Appleton, west end.  
Salmon, between Elm and Canal.  
Blodget and Chestnut.  
Orange and Chestnut.  
Orange, between Chestnut and Elm.  
Bridge, between Chestnut and Elm.  
Pearl and Walnut.  
Orange and Walnut.  
Orange and Beech.  
Pearl and Maple.  
Arlington and Maple.  
East High and Maple.  
Lowell and South.  
Concord and Belmont.  
Amherst and Belmont.  
Concord and Beacon.  
Lowell and Beacon.  
East High and Belmont.  
East High and Hall.  
Belmont and Central.  
Maple and Cedar.  
Willow and Merrill.

Auburn and Franklin.  
One light on State.  
River, near Turner Hall.  
Milford and Bowman.  
Milford and B.  
River and Douglas.  
Dover and Granite.

#### Oil Lights in Use.

Clarke and Adams.  
Pearl and Linden.  
Canal, near Amoskeag bridge.  
Merrimack and Beacon.  
Hanover and Mammoth road.  
Lake avenue and Hall road.  
Elm and Shasta.  
Elm and Baker.  
One light on Baker.  
Douglas and West.  
Douglas and Quincy.  
Granite and Quincy.  
Mast road and Riddle.  
Carroll.  
Bowman.  
A and B streets.  
Light near the Huntress gardens.  
Mammoth road and Cohas avenue.  
Mammoth road and Island Pond road.  
Mammoth road and Cilley.  
Mammoth road and Young.  
Massabesic and Hall road.  
Massabesic and Taylor.  
Belmont and Green.  
Valley and Taylor.  
Valley and Cypress.

Cypress and Prout avenue.

Jewett and Young.

Young and Taylor.

Three lights on River road, south of Blue store.

Ten lights in Goffe's Falls.

Three lights in Youngsville.

One light on Candia road, near Noah Reed's.

One light on Candia road, near Walter Cody's house.

One light at junction of Lake avenue and Hanover.

One light on Island Pond road, Mill-Dam House.

Amherst and Beacon.

One light at junction Ainsworth avenue and Young road.

One light at junction Ainsworth avenue and Young street.

One light on Taylor near Byron Stearns's house.

One light on Taylor, near Gilmore's house.

One light on Valley, near Eastman's store.

One light on Candia road, at P. Rogers's.

One light on Candia road, at Dan Cronin's.

One light on Candia road, at G. Bean's.

One light on Candia road, at C. Francis's.

One light on Candia road, at S. Mead's.

One light on Candia road, at Clafin's.

One light on Hanover, at Sam Page's.

One light at junction of Hanover and Page.

One light at Brown's.

One light at junction of Hanover and Proctor.

One light at junction of Hanover and Candia roads.

One light at junction of Proctor and Candia roads.

#### Electric Lights in Use.

No. 1. Cypress and Massabesic,	arm.
2. Massabesic and Old Falls road,	pole.
3. Lake avenue and Beacon,	arm.
4. Central and Hall,	"
5. Lake avenue and Massabesic,	"

No. 6. Wilson and Laurel,	arm.
7. Merrimack and Hall,	"
8. Manchester and Hall,	"
9. Manchester and Wilson,	"
10. Hanover and Ashland,	"
11. Hanover and Hall,	"
12. Hanover and Beacon,	"
13. Concord and Ashland,	"
14. Bridge and Hall,	"
15. Myrtle and Russell,	"
16. Pearl and Linden,	"
17. Pearl and Russell,	"
18. Bridge and Nashua,	"
19. Nashua and High,	"
20. Concord and Dutton,	"
21. Amherst and Lincoln,	"
22. Hanover and Lincoln,	"
23. Manchester and Lincoln,	"
24. Merrimack and Lincoln,	"
25. Laurel and Lincoln,	"
26. Central and Lincoln,	"
27. Lake avenue and Lincoln,	"
28. Spruce and Lincoln,	"
29. Spruce and Maple,	"
30. Lake avenue and Maple,	"
31. Central and Maple,	"
32. Merrimack and Maple,	"
33. Manchester and Maple,	"
34. Hanover and Maple,	"
35. Amherst and Maple,	"
36. Concord and Maple,	"
37. Lowell and Nashua,	"
38. Bridge and Maple,	"
39. Myrtle and Maple,	"
40. Orange and Ash,	"
41. Harrison and Beech,	"



No. 42. Myrtle and Beech	arm.
43. Pearl and Beech,	"
44. Bridge and Beech,	"
45. Lowell and Ash,	"
46. Amherst and Ash,	"
47. Lowell and Beech,	"
48. Concord and Walnut,	"
49. Amherst and Beech,	"
50. Hanover and Beech,	"
51. Hanover square,	pole.
52. Manchester and Beech,	arm.
53. Merrimack and Beech,	"
54. Laurel and Beech,	"
55. Central and Beech,	"
56. Lake avenue and Beech,	"
57. Spruce and Beech,	"
58. Cedar and Union,	"
59. Lake avenue and Union,	"
60. Central and Union,	"
61. Laurel and Union,	"
62. Merrimack and Union,	"
63. Manchester and Union,	"
64. Hanover and Union,	"
65. Amherst and Union,	"
66. Concord and Union,	"
67. Lowell and Walnut,	"
68. Lowell and Union,	"
69. High and Union,	"
70. Bridge and Union.	"
71. Bridge and Walnut,	"
72. Orange and Union,	"
73. Prospect and Union,	"
74. Brook and Union,	"
75. Pennacook and Union,	"
76. Webster and Pine,	"
77. North and Pine,	pole.

No. 78. Sagamore and Pine,	arm.
79. Blodget and Pine,	"
80. Harrison and Hazel,	"
81. Prospect and Pine,	"
82. Myrtle and Pine,	"
83. Orange and Pine,	"
84. Pearl and Pine,	"
85. Bridge and Pine,	"
86. Tremont square,	pole.
87. High and Pine,	arm.
88. Lowell and Pine,	"
89. Concord and Pine,	"
90. Amherst and Pine,	"
91. Hanover and Pine,	"
92. Manchester and Pine,	"
93. Merrimack and Pine,	"
94. Laurel and Pine,	"
95. Central and Pine,	"
96. Lake avenue and Pine,	"
97. Cedar and Pine,	"
98. Auburn and Pine,	"
99. Cedar and Chestnut,	"
100. Park square,	pole.
101. Lake avenue and Chestnut,	arm.
102. Central and Chestnut,	"
103. Merrimack square, east,	pole.
104. Merrimack and Chestnut,	arm.
105. Manchester and Chestnut,	"
106. Hanover and Chestnut,	"
107. Concord square, east,	pole.
108. Concord square, west,	"
109. Chestnut and Concord back street,	arm.
110. Chestnut and High,	"
111. Chestnut and Bridge,	"
112. Chestnut and Pearl,	"
113. Chestnut and Myrtle,	"

No. 114. Chestnut and Harrison,	arm.
115. Chestnut and Brook,	"
116. Pennacook and Chestnut,	pole.
117. Salmon and Chestnut,	"
118. Webster and Chestnut,	arm.
119. Clarke and Elm,	"
120. Webster and Elm,	"
121. North and Elm,	"
122. Salmon and Elm,	"
123. Pennacook and Elm,	"
124. Brook and Elm,	"
125. Harrison and Elm,	"
126. Langdon street,	pole.
127. Dean and Elm,	arm.
128. Prospect and Chestnut,	"
129. Orange and Elm,	"
130. Kidder and Elm,	"
131. Elm east back street, on Pearl,	"
132. Bridge and Elm,	"
133. Washington and Church,	"
134. Birch and Lowell,	"
135. Lowell and Elm,	"
136. Elm east back street, between Lowell and Concord,	"
137. Water and Elm,	"
138. Vine and Concord,	"
139. Vine and Amherst,	"
140. Amherst and Elm,	"
141. Spring and Elm west back street,	"
142. Stark street,	"
143. Market and Franklin,	"
144. Market and Elm,	"
145. Hanover and Elm east back street,	"
146. Elm and Manchester,	"
147. Dean avenue and Elm west back street,	"
148. Elm and Merrimack,	"

No. 149. Franklin and Merrimack	arm.
150. Middle street,	"
151. Merrimack square, west,	pole.
152. Elm and Central,	arm.
153. Elm and Lake avenue,	"
154. Elm and Spruce,	"
155. Elm east back street, between Spruce and Cedar,	pole.
156. Elm and Cedar,	arm.
157. Franklin and Granite,	"
158. Elm and Auburn,	"
159. Elm and Green,	"
160. Elm and Valley,	"
161. Elm and Brown avenue,	"
162. Summer and State,	pole.
163. Granite and State,	arm.
164. Granite bridge, east,	pole.
165. Bedford and Granite,	"
166. Canal and Granite,	"
167. Depot and Canal,	"
168. Central, between Franklin and Canal,	"
169. Bedford and Central,	arm.
170. Canal and Merrimack,	"
171. Canal and Middle,	"
172. Canal and Stark,	"
173. Canal and Mechanic,	"
174. Canal and Spring,	"
175. Canal and Bridge,	"
176. McGregor bridge, east,	pole.
177. Canal and Hollis,	"
178. Canal and Dean,	"
179. Canal and Langdon,	arm.
180. River road and North,	"
181. Amoskeag bridge, east,	o
182. Amoskeag bridge, west,	o
183. Amoskeag watering-trough,	pole.

No. 184. Amoskeag brick store,	pole.
185. McGregor and Main,	"
186. McGregor and Bridge,	"
187. McGregor bridge, west,	"
188. Amory and Main,	"
189. Amory and Beauport,	"
190. Wayne and Beauport,	"
191. Marion and Main,	"
192. McGregor and Wayne,	"
193. McGregor and Putnam,	arm.
194. Sullivan and Main,	pole.
195. Beauport and Sullivan,	"
196. Main and Schuyler,	"
197. Wilton and Main,	arm.
198. Douglas and Main,	"
199. Douglas and Barr,	"
200. Granite and Green,	"
201. West and Granite,	"
202. Granite and Main,	"
203. Granite and Second,	"
204. Granite bridge, west,	pole.
205. School and Turner,	arm.
206. School and Third,	"
207. Second and Bath,	pole.
208. Ferry and Turner,	arm.
209. Ferry and Third,	"
210. Walker and Second,	"
211. Blaine and Third,	"
212. Clinton and Main,	"
213. Walker and Main,	"
214. Parker and West,	"
215. Winter and Parker,	"
216. Main and Mast,	pole.
217. Main and Milford,	arm.
218. Main and A,	"
219. Carroll and Milford,	"

No. 220. Old Mast road and Mast,	arm.
221. Hall and Amherst,	"
222. Laurel and Maple,	"
223. Central and Wilson,	"
224. Harrison and Pine,	"
225. Massabesic and Belmont,	pole.
226. Union and Appleton,	arm.
227. Elm and Young,	pole.
228. Franklin and Pleasant,	arm.
229. Elm and Appleton,	"
230. Milford and Riddle,	"
231. Nutt road and Portsmouth railroad,	pole.
232. Lake avenue and Canton,	"
233. Laurel and Hall,	arm.
234. Beech and Brook,	"
235. Kidder and Boyden,	pole.
236. Myrtle and Walnut,	arm.
237. Bridge and Linden,	"
238. Lowell and Ashland,	"
239. Lowell and Belmont,	"
240. Pearl and Union,	"
241. Salem and Union,	pole.
242. Water street,	arm.
243. Arlington and Ashland,	"
244. Orange and Oak,	"
245. Prospect and Oak,	"
246. Arlington and Russell,	"
247. Walnut and Gore,	"
248. Laurel and Milton,	"
249. Massabesic and Hospital road,	pole.
250. Lake avenue and Wilson,	arm.
251. Bridge and Ash,	"
252. Franklin and Depot,	"
253. Spruce and Union,	"
254. Malvern and East High,	"
255. Hanover and Highland,	pole.

No. 256. Auburn and Beech,	pole.
257. Kidder and Whitney,	"
258. Valley and Jewett,	"
259. Concord and Derry,	"
260. Auburn and Union,	"
261. Harrison and Walnut,	arm.
262. West Hancock and Second,	pole.
263. Douglas and West,	"
264. Hooksett road, Amoskeag,	"
265. Ash and Prospect,	arm.
266. Canal and Salmon,	pole.
267. Harrison and Russell,	arm.
268. Gates and Dubuque,	pole.
269. Baker and Elm,	"
270. Auburn and Maple,	"
271. Pine and Salmon,	"
272. Adams and Appleton,	"
273. Clarke and River road,	arm.
274. North Main and Bremer,	pole.
275. Beech and Cedar,	"
276. Cass and Lake avenue,	"
277. Mast and Riddle,	"
278. Brown avenue and Baker,	arm.
279. Brown avenue and Hancock,	pole.
280. Clarke and Union,	arm.
281. Brook and Maple,	pole.
282. Market and Canal,	arm.
283. Brook and Hazel,	pole.
284. Webster and River road,	"
285. Webster and Walnut,	"
286. Chestnut, near Ray Brook,	"
287. Concord and Beech,	arm.
288. Prospect and Linden,	pole.
289. Pearl and Morrison,	"
290. Concord and Hall,	arm.

No. 291. Merrimack and Belmont,	arm.
292. Spruce and Beacon,	"
293. Belmont and Grove,	"
294. Bowman, near Milford,	"
295. Amory and Rimmon,	pole.
296. Pine and Valley,	"
297. Manchester and Milton,	"
298. Mammoth and Candia road,	"
299. Cypress and Hayward,	"
300. Conant and Rimmon,	"
301. Cartier and Kelley,	"
302. Monmouth and McGregor back street,	"
303. Calef road and Welch avenue,	"
304. Valley and Taylor,	arm.
305. Pine and Brook,	"
306. Conant and Beauport,	"
307. Douglas and North Weare Railroad,	pole.
308. Orange and Hall,	"
309. Wayne and Dubuque,	arm.
310. Putnam and Cartier,	arm.
311. Hall road and Lake avenue,	pole.
312. Walker and Fourth,	arm.
313. Winter, near Main,	"
314. Walker and Turner,	pole.
315. Ainsworth avenue and Young street,	arm.
316. Valley and Belmont,	"
317. Pine and Grove,	"
318. Blaine and Second,	"
319. Amory and Morgan,	"
320. Amory and Alsace,	"
321. East High and South,	"
322. Blaine and Main,	"
323. Dover and Clinton,	"
324. Elm back street, on Blodget,	"
325. B and C,	pole.



No. 326. Milford and Bismarek,	pole.
327. Merrimack and Wilson,	arm.
328. Pennacook and Canal,	pole.
329. Adams and Cartier,	"
330. Amherst and Ashland,	arm.
331. Putnam and Bartlett,	pole.
332. Auburn and Chestnut,	arm.
333. Laurel and Laurel avenue,	"
334. Hanover and Belmont,	"
335. Lowell and Malvern,	"
336. Wilson and Adams,	"
337. Lincoln and Silver,	"
338. Somerville and Jewett,	"
339. Elm and Ray brook,	"
340. Amory and Bartlett,	"
341. West Hancock and Dartmouth,	"
342. Monroe and River road,	"
343. Marion and McGregor,	"
344. South Main and Harvell,	"
345. South Main and Hancock,	"
346. Boynton street,	"
347. Mast road and Forest,	"
348. North and Union,	"
349. Kelley and Rimmon,	"
350. Cooledge, near Kelley,	"
351. Buzzell and East High,	"
352. Mechanic and Elm back street,	"
353. Harrison and Maple,	"
354. North and Bay,	"
355. Front and Dunbarton,	"
356. Orange and Linden,	"
357. Myrtle, near Belmont,	"
358. Taylor and Young road,	"
359. Nutt road and Auger avenue,	"
360. Union and Grove,	"

No. 361. Kelley and Alsace,	arm.
362. Main and Wayne,	"
363. Spruce and Barry avenue,	"
364. Lowell and Hall,	"
365. Central and Canal,	"
366. Myrtle and Elm back street,	"
367. Wilson and Silver,	"
368. Beech and Young,	"
369. Beech and Lawrence Railroad,	"
370. Lincoln and Cedar,	"
371. Wilson and Spruce,	"
372. Laurel and Beacon,	"
373. Harrison and Oak,	"
374. Pearl and Oak,	"
375. Liberty and Webster,	"
376. Wentworth and Bell,	"
377. Montgomery and Conant,	"
378. Massabesic and Hall road,	"
379. Summer and Hall,	"
380. Harrison and Ash,	"
381. Bridge and Highland,	"
382. Lowell and Chestnut,	"
383. Spruce and Chestnut west back street,	"
384. Tilton and Bowman avenue,	"
385. Prince and Boynton,	"
386. Carroll and Charlestown avenue,	"
387. Beech and Silver,	"
388. Beech and Portsmouth railroad,	"
389. Merrimack and Franklin west back street,	"
390. Prospect and Elm back street,	"
391. Pine and Pennacook,	"
392. Sagamore and Walnut,	"
393. Bridge and Belmont,	"
394. Cypress and Valley,	"
395. Carpenter and Union,	"

No. 396. North River road and Rowell,	arm.
397. North River road and Stark park,	"
398. Hanover and Grant,	"
399. Page and Portsmouth railroad,	"
400. Central and Cass,	"
401. Second and Schiller,	"
402. Mast and Bowman,	"
403. North Union,	"
404. Gore and Ash,	"
405. South and Elm,	"
406. Beech and Nutt road,	"
407. Ashland and East High,	"
408. Laurel and Belmont,	"
409. Lake avenue and Beacon,	"
410. Pine and Green,	"
411. Hanover and Page,	"
412. Beech and Green,	"
413. New Mast road and Wilkins,	"
414. Derryfield park,	"
415. Charles street,	"
416. State, near Granite,	"
417. Union and Valley,	"
418. Union and Silver,	"
419. Valley and Wilson,	"
420. Auburn and Wilson,	"
421. Cedar, near Maple,	"
422. Thornton and Sullivan,	"
423. New Mast road and D,	"
424. Pearl and Belmont,	"
425. State, south of Granite,	"
426. State east back,	"
427. Elm and Shasta,	"
428. North and Union,	"
429. Nutfield Lane, north of Amherst,	"
430. Elm and Elm avenue,	"

No. 431.	Arlington and Warren,	arm.
432.	Merrimack and Belmont,	"
433.	Amory, near Montgomery,	"
434.	Granite bridge, center,	pole.
435.	Prospect and Hall,	arm.
436.	Gore and Beech,	"
437.	Union and Whitford,	"
438.	Bedford road,	"
439.	Elm and Carpenter,	"

REPORT OF THE CITY AUDITOR.



## REPORT OF CITY AUDITOR.

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*To the City Councils:*

GENTLEMEN,—The auditor herewith submits to your honorable body his annual report.

### WORK OF THE OFFICE.

There have been made during the year the usual annual examination of the accounts of the treasurer, city clerk, water-works, superintendents of Pine Grove and Valley cemeteries, treasurer of cemeteries, tax collector, superintendent of city farm, superintendent of schools; monthly examination of the accounts of city weigher, quarterly examination of the accounts of chief of police, semi-annual examination of the account of the clerk of the police court; and compilation and superintendence of the publication of the annual report.

Six thousand three hundred and forty-one bills against the city have been examined and certified as correct. All the pay-rolls for the street and park commission, schools, fire department, water-works, police department, cemeteries, city farm, and city officials, have been examined and certified to.

Twelve monthly drafts, amounting in the aggregate to \$1,402,067.01, have been drawn on the city treasury.

Accounts have been kept with all the appropriations, with the treasurer, and tax collector.

## EXPENDITURES.

The amount of appropriation for auditor's department was.....		\$2,000.00
Expended for salaries.....	\$1,860.00	
Expended for supplies.....	109.77	
Balance transferred to reserved fund.....	30.23	
	<hr/>	\$2,000.00

The auditor desires especially to again call the attention of the various standing committees to the law in regard to contracting bills in behalf of the city.

"Standing committees have advisory powers only." That is, they can recommend to the city councils the making of contracts. "They cannot legally be endowed with executive or legislative powers by ordinance or resolution of the city councils." That is, they cannot be authorized to purchase anything in behalf of the city. For instance: If the committee on fire department desire to purchase a hose wagon for the fire department, said committee should present to the city councils an order like this, to wit:

"AN ORDER to purchase a Hose Wagon for the Fire Department.

"*Ordered*, etc., That the city purchase of . . . . . a two-horse hose wagon for use of the fire department, at a cost of \$ . . . , the expense thereof to be charged to the appropriation for fire department; and the mayor and joint standing committee on fire department are authorized to execute a contract for the same."

Several of the committees have been very lax in this respect during the past year, and have attempted to make contracts without the least semblance of authority from the city councils, which has put the parties contracted



with to great annoyance and trouble in getting their bills approved, having to wait sometimes months for the necessary ratification by the city councils. Clerks of all committees should be requested by the chairman, when an expenditure of money is deemed necessary, to prepare an order and present to the councils for legal authority, before proceeding to make any contract.

The auditor returns his thanks to Mayor Clarke, the city councils, the committee on accounts, the street and park commission, and the heads of departments, for their uniform courtesy and kindness.

Respectfully submitted.

JAMES E. DODGE,

*Auditor.*

## REPORT OF THE CITY TREASURER.

	Dr.
To Second National Bank, temporary loan.	\$100,000.00
E. H. Rollins & Sons, bridge bonds.....	130,000.00
E. H. Rollins & Sons, premium on bonds	832.00
E. H. Rollins & Sons, accrued interest on bonds.....	72.20
sinking fund trustees, school bonds....	26,000.00
sinking fund trustees, premium on bonds.....	655.20
George A. Fernald & Co., school bonds.	54,000.00
George A. Fernald & Co., premium on bonds.....	2,354.40
George A. Fernald & Co., accrued inter- est on bonds.....	36.00
George A. Fernald & Co., school bonds.	40,000.00
George A. Fernald & Co., premium on bonds.....	1,214.40
George A. Fernald & Co., accrued inter- est on bonds.....	182.22
George A. Fernald & Co., improvement bonds.....	100,000.00
George A. Fernald & Co., premium on bonds.....	5,317.00
George A. Fernald & Co., accrued inter- est on bonds.....	188.90
N. P. Kidder, city hall receipts.....	48.00
Philharmonic Society, rent city hall....	28.00

To N. P. Kidder, dog licenses.....	\$1,281.07
N. P. Kidder, billiard table licenses.....	175.00
N. P. Kidder, lunch-cart licenses.....	62.50
N. P. Kidder, show licenses.....	298.00
N. P. Kidder, sewer licenses.....	3,236.48
N. P. Kidder, rent of bill board.....	30.00
N. P. Kidder, rent of tenements.....	275.96
H. D. Lord, rent of tenements.....	203.30
M. J. Healy, police department.....	62,769.19
J. C. Bickford, police department.....	1,236.32
Charles K. Walker, water-works receipts.....	128,907.03
B. A. Stearns, Pine Grove cemetery....	2,781.31
Fred L. Allen, treasurer Pine Grove cemetery.....	2,343.92
C. H. G. Foss, Valley cemetery.....	1,900.31
county of Hillsborough, paupers off the farm.....	3,400.71
E. G. Libbey, superintendent city farm, receipts.....	4,494.12
E. C. Smith, milk licenses.....	80.00
A. B. Eaton, city scales, receipts.....	313.43
cemetery fund trustees, bonds.....	6,000.00
William E. Buck, tuition.....	289.55
William E. Buck, free text-books.....	216.43
George E. Morrill, taxes, 1893.....	591.79
George E. Morrill, abatement taxes, 1895.....	532.47
George E. Morrill, taxes, 1895.....	36,592.46
George E. Morrill, interest on taxes, 1895.....	1,031.31
George E. Morrill, taxes, 1896.....	490,304.44
George E. Morrill, abatement of taxes, 1896.....	588.43
George E. Morrill, redemption of land, 1893.....	1,788.29

To George E. Morrill, redemption of land, 1894.....	\$1,376.77
George E. Morrill, redemption of land, 1895.....	1,258.40
street and park commission, sundry per- sons.....	1,391.29
Pike & Heald Co., overdraft, health de- partment.....	1.66
Barnard Taffe, peddler's license.....	20.00
Barnet Custin, peddler's license.....	20.00
A. Noalett, overdraft, Division No. 10 pay-roll.....	4.50
P. Couley, overdraft, Division No. 10 pay-roll.....	4.50
town of Londonderry, school-tax, 1895..	44.47
Timothy Shea, land sold on Bridge street.....	7,200.00
Solomon Kaplan, peddler's license.....	20.00
C. H. Hutchinson Co., old boiler.....	10.00
Cyrille LeBrun, peddler's license.....	20.00
Simon Leonenstein, peddler's license...	20.00
C. H. Manning, old iron.....	.50
S. Levenson, peddler's license.....	20.00
Second National Bank, security bond..	100,000.00
Second National Bank, premium on bond.....	5.00
A. Weinstein, peddler's license.....	20.00
W. H. Darling, fire-alarm telegraph, old zincs.....	6.43
William M. Parsons, rent of Hallsville school yard.....	5.00
H. B. Fairbanks, account land sold on Wilson street.....	726.50
Lewis & Heald, account land sold on Wilson street.....	1,199.20

To Lewis & Paige, account land sold on Wilson street.....	\$1,760.00
J. Hodge, overdraft, commons.....	.70
Taggart & Manahan, land sold, School street.....	650.00
Charles A. Flint, land sold, Spruce street.....	553.44
Charles A. Flint, interest on note.....	19.36
Trinity M. E. church, land sold, School street.....	2,407.55
A. N. Clapp, land sold, School street....	602.66
S. Peltin, peddler's license.....	20.00
Barbara Kalie, peddler's license.....	20.00
S. Harrison, peddler's license.....	20.00
Asehr Weinices, peddler's license.....	20.00
M. Severson, peddler's license.....	20.00
F. A. Dockham, school building, South Main street.....	75.00
C. W. Boynton, land sold, Spruce street.	182.09
C. W. Boynton, interest on note.....	32.78
George E. Morrill, old taxes.....	350.68
Solon A. Carter, insurance tax.....	2,632.50
Solon A. Carter, railroad tax.....	29,530.64
Solon A. Carter, savings bank tax.....	50,770.79
Solon A. Carter, literary fund.....	3,869.60
Sarah I. Locke, land sold, South Man- chester.....	145.00
H. B. Fairbanks, land sold, South Man- chester.....	50.00
Water-works, pay-roll Division No. 7...	12.00
S. Lichtenstein, peddler's license.....	20.00
George S. Eastmān, hose house build- ing, Clinton street.....	50.00
	<hr/>
	\$1,419,841.15

Unpaid bills December 31, 1896.....	\$80,098.53
Cash on hand January 1, 1896.....	207,576.01
Amount of deposit in Commonwealth Bank, January 1, 1896.....	2,344.68

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\$1,709,860.40

CR.

Total amount of drafts for the year 1896...	\$1,402,067.01
Unpaid bills, January 1, 1896.....	66,831.82
Cash on hand January 1, 1897.....	240,961.57

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\$1,709,860.40

FRED L. ALLEN,  
*City Treasurer.*

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*To the City Councils of the City of Manchester, N. H.:*

GENTLEMEN,—I have examined the accounts of Fred L. Allen, city treasurer, for the year ending December 31, 1896, and find proper vouchers for all payments, and all receipts duly accounted for.

The net cash on hand January 1, 1896, was..	\$143,088.90
Receipts during the year.....	1,419,841.15
Total .....	<u>\$1,562,930.05</u>

Amount of drafts during the year.....	\$1,402,067.01
Net cash on hand December 31, 1896.....	160,863.04
Total .....	<u>\$1,562,930.05</u>

The cash balance taken December 31, 1896, I find to be as follows:

Deposited in Suffolk National Bank.....	\$20,652.00
Deposited in Second National Bank.....	212,404.12

Deposited in office safe.....	\$6,498.61
Deposited in National Bank of the Commonwealth.....	1,406.83
	<hr/>
Gross amount of cash on hand.....	\$240,961.57
Deduct amount of bills unpaid.....	80,098.53
	<hr/>
Net cash on hand December 31, 1896.	\$160,863.04

Respectfully submitted, together with a tabular statement of the receipts and expenditures of the city for the year 1896.

JAMES E. DODGE,  
*City Auditor.*

STATEMENT OF THE RECEIPTS AND EXPENDITURES OF THE CITY OF MANCHESTER  
FOR THE YEAR 1896.

Receipts.

CENTRAL DEPARTMENT.

Received from:

Direct city taxes.....	\$528,960.27	
Cost and interest on taxes...	1,031.31	
	<hr/>	\$529,991.58
Licenses to enter sewer.....	\$3,236.48	
to keep dog.....	1,281.07	
to sell milk.....	80.00	
to keep billiard table.....	175.00	
to shows and exhibitions.....	298.00	
to peddle.....	260.00	
to lunch-carts.....	62.50	
	<hr/>	\$5,393.05
Rents.....		585.26
		<hr/>
		\$535,969.89

## SUNDRIES.

## Received from:

City scales.....	\$313.43	
Miscellaneous sources.....	384.05	
	<hr/>	\$697.48

## SCHOOL DEPARTMENT.

Received from text-books and tuition.....	\$505.98
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## POLICE DEPARTMENT.

Received from fines and costs.....	\$64,005.51
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## PUBLIC PLACES.

## Received from:

Pine Grove cemetery.....	\$5,119.23	
Valley cemetery.....	1,900.31	
	<hr/>	\$7,019.54

## WATER-WORKS.

Gross receipts.....	\$128,907.03
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## CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

## Received from:

City farm.....	\$4,494.12	
Hillsborough county, board- ing paupers and Industrial school inmates.....	3,400.71	
	<hr/>	\$7,894.83

## MISCELLANEOUS.

## Received from:

Premium on bonds and notes sold.....	\$10,378.00
Accrued interest on bonds...	531.46



Land redeemed from tax sale	\$4,423.46	
Manchester Electric R. R., on account of Granite bridge.	1,228.00	
Land sold .....	15,476.44	
	<hr/>	\$32,037.36
Total ordinary receipts during the year 1896 .....		\$777,037.62

## TEMPORARY LOAN.

Received from loans in anticipation of tax of 1896 .....	\$100,000.00
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## STATE.

Received from:		
Insurance taxes .....	\$2,632.50	
Railroad taxes .....	29,530.64	
Savings bank taxes .....	50,770.79	
Literary fund .....	3,869.60	
	<hr/>	\$86,803.53

## BONDED DEBT.

Received from:		
Improvement bonds sold....	\$100,000.00	
Bridge bonds sold .....	130,000.00	
Cemetery bonds sold .....	6,000.00	
Schoolhouse bonds sold....	120,000.00	
Security bonds sold .....	100,000.00	
	<hr/>	\$456,000.00
Gross receipts .....	\$1,419,841.15	
Net cash on hand January 1, 1896 .....	143,088.90	
	<hr/>	\$1,562,930.05
	<hr/>	

## Expenditures.

## CENTRAL DEPARTMENT.

Paid interest on water bonds..	\$41,446.00	
interest on city bonds....	30,362.00	
interest o n cemetery		
bonds.....	1,912.48	
interest o n temporary		
loan, anticipation tax,		
1896.....	925.01	
	<hr/>	\$74,645.49
Paid city hall.....	\$5,316.61	
printing and stationery..	1,938.55	
incidental expenses.....	16,526.42	
mayor's incidentals.....	249.54	
city officers' salaries....	14,885.49	
city auditor's department	1,969.77	
sinking fund trustees....	15,000.00	
	<hr/>	\$55,886.38

## STREET AND SEWER DEPARTMENT.

Paid street and park commis-	
sion.....	\$3,712.03
repairs of highways.....	18,370.94
snow and ice.....	5,250.78
new highways.....	18,617.52
land taken for highways.	2,911.12
watering streets.....	4,196.48
paving streets.....	6,320.69
macadamizing streets...	17,019.13
grading for concrete.....	5,035.82
scavenger service.....	14,991.10
street sweeping.....	2,968.44
lighting streets.....	51,426.60
bridges.....	4,336.88

Paid city teams.....	\$6,285.70	
repairs of sewers.....	5,421.63	
new sewers.....	41,015.68	
Silver-street sewer.....	16,124.13	
Christian brook sewer...	5,187.08	
River road and Elm-		
street sewer.....	9,302.43	
widening and straighten-		
ing old Mammoth road.	1,000.00	
macadamizing Central		
street.....	2,829.35	
new bridge, Granite		
street.....	138,755.73	
	<hr/>	\$381,079.26

## ENGINEER'S DEPARTMENT.

Paid engineer's department.....	\$5,895.25
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## HEALTH DEPARTMENT.

Paid health department.....	\$4,163.39
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## SCHOOL DEPARTMENT.

Paid repairs of schoolhouses...	\$6,578.38
fuel.....	6,784.03
furniture and supplies...	1,114.14
books and stationery.....	46.04
printing and advertising.	429.56
contingent expenses.....	1,857.79
care of rooms.....	5,031.56
evening schools.....	1,061.50
teachers' salaries.....	72,838.95
salaries school committee,	
clerk, truant officer....	1,100.00
salary of superintendent.	2,300.00
evening school, mechani-	
cal drawing.....	356.25

Paid free text-books.....	\$5,058.42	
manual training.....	1,403.29	
	<hr/>	\$105,959.91

## CITY LIBRARY.

Paid city library.....	\$4,877.37
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## FIRE DEPARTMENT.

Paid fire department.....	\$63,567.65	
fire-alarm telegraph.....	1,730.42	
hydrant service.....	16,800.00	
	<hr/>	\$82,098.07

## POLICE DEPARTMENT.

Paid police department.....	\$43,047.05	
police patrol.....	9,999.81	
	<hr/>	\$53,046.86

## PUBLIC BUILDINGS.

Paid repairs of buildings.....	\$7,549.68	
new schoolhouse, ward 8..	20,255.54	
new schoolhouses.....	101,003.32	
	<hr/>	\$128,808.54

## WATER-WORKS.

Paid water-works.....	\$95,993.68	
water-works sinking fund	16,800.00	
	<hr/>	\$112,793.68

## PUBLIC PLACES.

Paid commons.....	\$4,351.15	
Stark and Derryfield		
parks.....	5,000.00	
Pine Grove cemetery....	8,593.54	
Valley cemetery.....	3,006.84	
Amoskeag cemetery.....	349.72	
	<hr/>	\$21,301.25

## CHARITABLE, PATRIOTIC, AND PHILANTHROPIC.

Paid paupers off the farm.....	\$12,140.67	
city farm.....	8,463.89	
indigent soldiers.....	285.85	
Women's Aid and Relief		
Hospital.....	300.00	
Sacred Heart Hospital...	300.00	
free beds, Elliot Hospital.	300.00	
Emergency ward, Elliot		
Hospital.....	300.00	
free beds, Notre Dame des		
Lourdes Hospital.....	300.00	
cemi-centennial celebra-		
tion.....	2,000.00	
decoration of soldiers'		
graves.....	407.47	
militia.....	800.00	
band concerts.....	300.00	
	<hr/>	\$25,897.88

## ABATEMENTS.

Paid abatement of taxes.....	\$1,183.96
Total of ordinary municipal expendi-	
tures.....	<hr/> \$1,057,637.29

## TEMPORARY LOAN.

Paid loan made in anticipation of tax for	
1896.....	\$100,000.00

## BONDED DEBT.

Paid school bonds.....	\$10,000.00	
security bonds.....	100,000.00	
	<hr/>	\$110,000.00

## STATE AND COUNTY TAXES.

Paid state tax.....	\$68,225.00	
county tax.....	66,204.72	
	<hr/>	\$134,429.72

Grand total of expenditures during  
the year..... \$1,402,067.01

Cash on hand December 31, 1896.....	\$240,961.57
Less unpaid bills.....	80,098.53

Net cash on hand..... \$160,863.04

\$1,562,930.05

## Interest.

Appropriation.....	\$35,000.00	
Transferred from water-works.	41,446.00	
	<hr/>	\$76,446.00

## EXPENDITURES.

Paid Second National Bank, in- terest on \$100,000 bond one month.....	\$208.33
discount on \$100,000, forty- three days.....	716.68
coupons on bridge bonds..	2,402.00
coupons on city bonds....	6,200.00
coupons on improvement bonds.....	13,940.00
coupons on schoolhouse bonds.....	5,320.00



RECEIPTS.

YEAR.	January 1. Balance on hand.	Direct city taxes.	Costs and interest on taxes.	LICENSES.					Rents.	City farm.	Hillsboro' county, board of paupers and Indus- trial School inmates.	Land sold.	Premium on bonds sold.	Accrued interest on bonds sold.	Land redeemed.	Miscella- neous.	Bridges.	City seals.	Tuition and text- books.	Court fines and costs.	Pine Grove cemetery.	Valley cemetery.	Gross wages.
				To enter sewer.	To keep dog.	To sell milk.	To keep billiard table.	For ped- dlers, shows, exhibitions and lunch carts.															
1896 * . . . . .	\$143,088.90	\$528,960.27	\$1,031.31	\$3,236.48	\$1,281.07	\$80.00	\$175.00	\$620.50	\$585.26	\$4,494.12	\$3,400.71	\$15,476.44	\$10,378.00	\$531.46	\$4,423.46	\$384.05	\$1,228.00	\$313.43	\$505.98	\$64,005.51	\$5,119.23	\$1,900.31	\$128

EXPENDITURES.

YEAR.	INTEREST.					City officers' salaries.	City hall.	Auditor's department.	Police department.	STREET AND SEWER DEPARTMENT.															
	On water bonds.	On city bonds.	On cemetery bonds.	On temporary loan.	Street and park commission.					Repairs of highways, snow and ice.	New highways.	Widening old Mammoth road.	Land damages.	Sprinkling.	Paving.	Macadamizing.	Grading for concrete.	Scavenger teams.	Street sweeping.	Lighting streets.	Bridges, main-tenance.	Granite street bridge.	City teams.	Repairs of sewers and drains.	Ne-
1896..	\$41,446.00	\$30,362.00	\$1,912.48	\$925.01	\$14,885.49	\$5,316.61	\$1,969.77	\$53,046.86	\$3,712.03	\$23,621.72	\$18,617.52	\$1,000.00	\$2,911.12	\$4,196.48	\$6,320.69	\$19,848.48	\$5,035.82	\$14,991.10	\$2,968.44	\$51,426.60	\$4,336.88	\$138,755.73	\$6,285.70	\$5,421.63	\$5

EXPENDITURES.—CONTINUED.

YEAR.	Engineer's depart- ment.	Health depart- ment.	Printing and stationery.	Incidental expenses.	Mayor's incl- dentals.	CITY LIBRARY.		FIRE DEPARTMENT.			PUBLIC BUILDINGS.		WATER-WORKS.			PUBLIC PLACES.					CHARITY, PATRIOTISM, PH					
						Main- tenance.	Books.	Fire depart- ment.	Fire-alarm telegraph.	Hydrant service.	Repairs.	New school- houses, lands, buildings and furniture.	Construction, repairs, and current ex- penses.	Sinking fund.	Commons.	Stark and Derryfield parks.	Pine Grove cemetery.	Valley cemetery.	Amoskeag cemetery.	Paupers off the farm.	City farm.	Notre-Dame de Lourdes hospital.	Indigent soldiers	Decorat- ion of soldiers' graves.	Band concerts.	M
1896..	\$5,895.25	\$4,163.39	\$1,938.55	\$16,526.42	\$249.54	\$3,877.37	\$1,000.00	\$63,567.65	\$1,730.42	\$16,800.00	\$7,549.68	\$121,258.86	\$95,993.68	\$16,800.00	\$4,351.15	\$5,000.00	\$8,593.54	\$3,006.84	\$349.72	\$12,140.67	\$8,463.89	\$300.00	\$285.55	\$407.47	\$300.00	\$8

\* See Reports for 1894 and 1895 for comparison with other years.



# RECEIPTS.

Land sold.	Premium on bonds sold.	Accrued interest on bonds sold.	Land redeemed.	Miscellaneous.	Bridges.	City scales.	Tuition and text-books.	Court fines and costs.	Pine Grove cemetery.	Valley cemetery.	Gross receipts water-works.	Total ordinary receipts during the year, excluding cash on hand.	LOAN.		TAXES RECEIVED FROM THE STATE.				Total receipts from loans and state taxes.	Grand total receipts during the year, including cash on hand.
													Temporary.	Bonded.	Insurance tax.	Railroad tax.	Savings bank tax.	Literary fund.		
\$15,476.44	\$10,378.00	\$531.46	\$4,423.46	\$384.05	\$1,228.00	\$313.43	\$505.98	\$64,005.51	\$5,119.23	\$1,900.31	\$128,907.03	\$777,037.62	\$100,000.00	\$456,000.00	\$2,632.50	\$29,530.64	\$50,770.79	\$3,869.60	\$642,803.53	\$1,562,930.05

# EXPENDITURES.

STREET AND SEWER DEPARTMENT.												SCHOOL DEPARTMENT.													
Paving.	Macadamiz- ing.	Grading for concrete.	Scavenger teams.	Street sweeping.	Lighting streets.	Bridges, main- tenance.	Granite street bridge.	City teams.	Repairs of sewers and drains.	New sewers.	Sinking fund.	Repairs of school- houses.	Fuel.	Furniture and sup- plies.	Books and stationery.	Printing and adver- tising.	Contingent expenses.	Care of rooms.	Evening schools.	Teachers' salaries.	Salaries of school com- mittees and truant officers.	Salary of superinten- dent of schools.	Evening schools, mechanical drawing.	Free text- books.	Manual training.
\$3,320.69	\$19,848.48	\$5,035.82	\$14,991.10	\$2,968.44	\$51,426.60	\$4,336.88	\$138,755.73	\$6,285.70	\$5,421.63	\$71,629.32	\$15,000.00	\$6,578.38	\$6,784.03	\$1,114.14	\$46.04	\$429.56	\$1,857.79	\$5,031.56	\$1,061.50	\$72,838.95	\$1,100.00	\$2,300.00	\$356.25	\$5,058.42	\$1,403.29

# EXPENDITURES.—CONTINUED.

PUBLIC PLACES.					CHARITY, PATRIOTISM, PHILANTHROPY.												Tax abate- ments.	Total of ordi- nary municipal expenditures.	Debt.	Temporary loan.	State tax.	County tax.	Total of loan debt and state and coun- ty tax ex- penditure.	Grand total of expenditures.	Cash on hand.
Commons.	Stark and Derryfield parks.	Pine Grove cemetery.	Valley cemetery.	Amoskeag cemetery.	Paupers off the farm.	City farm.	Notre-Dame de Lourdes hospital.	Indigent soldiers	Decorat- ion of soldiers' graves.	Band concerts.	Militia.	Women's Aid and Relief hospital	Semi-Cen- tennial cele- bration.	Free beds, Elliot hospital.	Sacred Heart hospital.	Emergen- cy ward, Elliot hos- pital.									
4,351.15	\$5,000.00	\$8,593.54	\$3,006.84	\$349.72	\$12,140.67	\$8,463.89	\$300.00	\$285.85	\$407.47	\$300.00	\$800.00	\$300.00	\$2,000.00	\$300.00	\$300.00	\$300.00	\$1,183.96	\$1,057,637.29	\$110,000.00	\$100,000.00	\$68,225.00	\$66,204.72	\$344,429.72	\$1,402,067.01	\$160,863.04

coupons on improvement  
bonds..... 13,940.00  
coupons on schoolhouse  
bonds..... 5,320.00

Paid coupons on water bonds...	\$41,446.00	
coupons on cemetery		
bonds.....	1,912.48	
coupons on security note.	2,500.00	
	<hr/>	\$74,645.49
Total expenditures.....		<hr/> \$74,645.49
Transferred to reserved fund.....		1,800.51
		<hr/>
		<hr/> \$76,446.00
		<hr/>

### Payment of Funded Debt.

Appropriation.....	\$10,000.00	
Received from Second National		
Bank for bonds sold.....	100,000.00	
	<hr/>	\$110,000.00
		<hr/>

### EXPENDITURES.

Paid Second National Bank,		
four notes of \$25,000		
each, dated March 1,		
1894, and due March 1,		
1896.....	\$100,000.00	
schoolhouse bonds, due		
July 1, 1896.....	10,000.00	
	<hr/>	\$110,000.00
		<hr/>

### Sinking Fund.

Appropriation.....	<hr/> \$15,000.00
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### EXPENDITURES.

Paid sinking fund commissioners.....	<hr/> \$15,000.00
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## Reserved Fund.

Appropriation.....	\$10,000.00
Received from sale of land....	1,660.21
Transferred from the following accounts:	
Interest.....	1,800.51
Printing and stationery.....	561.45
City officers' salaries.....	2,714.51
Mayor's incidentals.....	50.46
Auditor's department.....	30.23
Street and park commission.	287.97
land taken for highways.....	2,088.88
Watering streets.....	803.52
Macadamizing streets.....	151.52
Street sweeping.....	31.56
Scavenger service.....	1,008.90
Lighting streets.....	573.40
Health department.....	36.61
Books and stationery.....	53.96
Care of rooms.....	468.44
Teachers' salaries.....	1,161.05
Evening schools.....	438.50
Evening school, mechanical drawing.....	143.75
Manual training.....	96.71
Fire-alarm telegraph.....	269.58
Police station.....	487.69
Police court.....	32.01
Police patrol.....	.19
Commons.....	148.85
Amoskeag cemetery.....	.28
Indigent soldiers.....	164.15
Abatement of taxes.....	1,816.04
Free cash in treasury in ex- cess of appropriations.....	9,191.80

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\$36,272.73

## EXPENDITURES.

Transfers to the following accounts:

City hall.....	\$316.61
Incidental expenses.....	3,026.42
Repairs of highways.....	312.78
Snow and ice.....	308.94
Bridges.....	336.88
Grading for concrete.....	35.82
City teams.....	285.70
Repairs of sewers.....	421.63
New bridge, Granite street..	7,527.73
Engineer's department.....	1,395.25
Repairs of schoolhouses.....	578.38
Fuel.....	284.03
Furniture and supplies.....	114.14
Printing and advertising....	129.56
Contingent expenses.....	257.79
Free text-books.....	58.42
Fire department.....	2,567.65
Police commission.....	866.75
Repairs of buildings.....	1,549.68
New schoolhouse, West Manchester.....	10,255.54
Valley cemetery.....	6.84
Pine Grove cemetery.....	93.54
Paupers off the farm.....	1,640.67
City farm.....	463.89
Decoration of soldiers' graves	7.47
New sewers.....	186.06
New schoolhouses.....	2,923.87
Paving streets.....	320.69

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\$36,272.73

### Temporary Loan.

#### RECEIPTS.

Received from Second National Bank, on two notes of \$50,000 each, dated October 24, 1896.....	\$100,000.00
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#### EXPENDITURES.

Paid Second National Bank, two notes of \$50,000 each, dated October 24, 1896.....	\$100,000.00
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#### City Hall.

Appropriation .....	\$4,000.00	
Transferred from appropriation for public bath-houses.....	1,000.00	
Transferred from reserved fund	316.61	
		<u>\$5,316.61</u>

#### EXPENDITURES.

#### FUEL AND LIGHTS.

Paid Manchester Electric Light Co., electric lights.....	\$151.00
Manchester Electric Co., electric lights.....	128.00
People's Gas-Light Co., gas.....	259.00
Union Electric Co., elec- tric lights.....	499.49
Paid L. B. Bodwell & Co.:	
30 tons broken coal.....	187.50
4 cords wood.....	24.00

Paid Moore & Preston, 20 tons broken coal.....	\$125.00	
E. V. Turcotte, 68 tons, 1,250 lbs. coal.....	367.14	
	<hr/>	\$1,741.13

## WATER AND TELEPHONE.

Paid New England Telephone & Telegraph Co., use of telephones.....	\$75.00	
Manchester Water-Works, use of water.....	476.70	
	<hr/>	\$551.70

## CLEANING OFFICES, ETC.

Paid Clark M. Bailey:

Brooms, mops, toilet paper, etc.....	\$13.95	
2 ash-cans.....	6.00	
Paid A. M. Eastman, matches..	.36	
J. S. Holt & Co., 156 gal- lons soap.....	22.22	
Mary Nolan, cleaning of- fices.....	285.00	
Oscar Perkins, care gents' toilet, etc.....	352.00	
F. H. Thurston, soap, mayor's office.....	1.00	
John B. Varick Co., pails, mops, mop-yarn, brooms, hose, etc.....	11.97	
Weston & Hill Co., 60 yards scrim.....	2.16	
	<hr/>	\$694.66

## INCIDENTAL REPAIRS.

Paid J. J. Abbott, glass and setting same, lettering transoms, etc.....	\$24.40
Adams Brothers, 40 lbs. cement.....	.40
D. J. Adams, keys, repairing check punch.....	2.55
Paid L. M. Aldrich:	
Lumber and labor.....	10.59
Wire cloth, etc.....	1.56
Paid E. M. Bryant & Co., lamps, shades, labor.....	5.54
Bunton Bros. & Co., re-seating chairs.....	6.95
J. F. Burton, mason work	1.70
James R. Carr & Co., 4 lights glass and setting same.....	1.90
Peter Harris, keys.....	.40
Paid The Head & Dowst Co.:	
Lumber and labor.....	47.58
Bill for painting.....	63.76
Screen cloth, screens, screen doors, etc.....	138.04
Paid George Holbrook, lumber and labor.....	15.75
George W. Hamlin, paint and labor.....	38.89
Kimball & Hobbs, enameled cloth, etc.....	.67



## Paid T. A. Lane Co.:

Labor on water-closets.....	\$23.02
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Labor on telephone and elec- trics.....	11.90
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1 light glass.....	.20
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Paid Perkins & Franks, repair- ing fan motor.....	2.50
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## Paid John B. Varick Co.:

Copper wire, chain, nippers, etc.....	1.40
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1 door-spring and catch.....	3.50
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2 thermometers.....	1.75
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Paid F. W. Webb, assignee F. I.  
Lessard & Co.:

Material and bronzing radia- tors.....	23.05
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Repairing locks.....	3.68
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\$431.68

## FURNITURE, FIXTURES, OFFICE SUPPLIES.

Paid T. W. Day, 2 vols. "Reid on Corporate Finance"....	\$11.00
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R. D. Gay, awnings and shades.....	122.58
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## Paid Charles A. Hoitt &amp; Co.:

72 chairs.....	27.00
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Use 192 chairs.....	9.60
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2 cuspidors, treasurer's of- fice.....	1.00
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1 desk, treasurer's office.....	35.00
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2 office chairs, treasurer's of- fice.....	15.00
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2 pine tables.....	3.70
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Paid Manchester Hardware Co., twine, locks, lan- tern, iron, etc.....	4.35
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Paid People's Gas-Light Co., 1 Welsbach lamp, stand, and tubing, assessor's office.....	\$4.50	
Pike & Heald Co., 1 ash- can cover.....	3.50	
Sampson, Murdock & Co., 1 N. E. Directory.....	6.00	
Second National Bank, 1 large iron and brick vault, doors, etc.; 1 steel safe, with safety deposit boxes; 1 black walnut counter with appurte- nances; 1 large black walnut library table; 6 office chairs; 1 uphol- stered lounge.....	1,500.00	
D. A. Simons, 1 chair, su- perintendent schools...	5.00	
Temple & Farrington Co., 1 cash-book and canvas cover, treasurer.....	8.00	
John B. Varick Co., shovel, oil, can.....	1.20	
Weston & Hill Co., 2 flags..	14.50	
	<hr/>	\$1,771.93

SUNDRIES.

Paid A. Elliott & Co., premium on insurance policy....	\$31.16
T. E. Fifield, matches....	.72
R. D. Gay, taking down awnings.....	10.25
W. P. Goodman, paste....	.10

Paid pay-roll, division No. 2:

January..... \$1.46

July..... 6.82

Paid Richardson & Goggin, pre-  
mium on insurance pol-  
icy.....

25.00

John A. Sheehan, pre-  
mium on insurance pol-  
icy.....

50.00

\$125.51

Total expenditures.....

\$5,316.61

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Printing and Stationery.

Appropriation.....

\$2,500.00

EXPENDITURES.

ASSESSORS AND INSPECTORS.

Paid The John B. Clarke Co.,  
printing:

400 blanks..... \$6.00

Check-lists..... 321.50

Additions to check-lists..... 79.40

Advertising..... 13.50

Paid A. E. Martell & Co., 3 let-  
ter books.....

7.50

Temple & Farrington Co.,  
pencils, books, rubber  
bands, etc.....

12.92

\$440.82

## TAX COLLECTOR.

Paid The John B. Clarke Co., advertising:		
Sale non-resident lands, three times.....	\$35.70	
Printing notices and receipts.	29.00	
Paid Independent Statesman, advertising tax-list.....	7.50	
Paid A. E. Martell & Co.:		
1 letter book.....	3.50	
6 deposit slip books.....	4.75	
Paid Temple & Farrington Co., paper.....	1.45	
	<hr/>	\$81.90

## CITY CLERK.

Paid The John B. Clarke Co., printing:		
Certificate blanks, letter headings, circulars, cards, etc.....	\$22.90	
Blank books.....	32.00	
Paid Nate Kellogg Co.:		
300 envelopes.....	7.75	
Dog licenses.....	8.25	
Paid J. B. McCrillis & Son, pa- per, covers, fasteners, etc.....	3.20	
Temple & Farrington Co., envelopes, seals, blank book.....	7.25	
	<hr/>	\$81.35

## CITY TREASURER.

Paid The John B. Clarke Co., printing pay-rolls, letter headings, blank books, note circulars.....	\$33.50	
W. P. Goodman, cash book, inkstand, ledgers, envelopes, pen-holders, erasers, etc.....	33.29	
Paid The Nate Kellogg Co., printing:		
2,500 orders, 500 receipts....	9.00	
1,000 pay-rolls, 1,000 postals.	17.75	
Paid Temple & Farrington Co.:		
1 leather envelope.....	.75	
200 deeds.....	4.00	
		<hr/> \$98.29

## CITY AUDITOR.

Paid The John B. Clarke Co., printing:		
100 statements bonded debt..	\$8.00	
1,000 blank bills.....	6.00	
800 reports.....	950.66	
Binding 150 reports.....	150.00	
Lettering 52 reports.....	5.20	
Paid Temple & Farrington Co.:		
Diary.....	.50	
72 document envelopes.....	5.76	
4 blank books.....	8.00	
		<hr/> \$1,134.12

## MAYOR.

Paid The John B. Clarke Co., printing order blanks..	\$12.25
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Paid E. R. Coburn Co., type- writer paper.....	\$2.49	
Paid Temple & Farrington Co.:		
Paper, envelopes.....	34.48	
Mucilage, shorthand books..	2.95	
		<u>\$52.17</u>

## CITY COUNCILS AND COMMITTEES.

Paid The John B. Clarke Co., notices, blanks, envel- opes.....	\$19.25	
The Nate Kellogg Co., printing.....	29.50	
Temple & Farrington Co., paper, ink, pen-holders, inkstand.....	1.15	
		<u>\$49.90</u>
Total expenditures.....	\$1,938.55	
Transferred to reserved fund.....	561.45	
		<u>\$2,500.00</u>

## Incidental Expenses.

Appropriation.....	\$12,000.00	
Received from sale of land, res- olution May 5, 1896.....	2,000.00	
Transferred from appropriation for public bath-houses.....	1,500.00	
Transferred from reserved fund	3,026.42	
		<u>\$18,526.42</u>

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay- roll, division No. 2:	
January.....	\$30.00

February.....	\$24.00	
March.....	24.00	
April.....	30.00	
May.....	24.00	
June.....	191.95	
July.....	24.00	
August.....	24.00	
September.....	30.00	
October.....	24.00	
November.....	24.00	
December.....	30.00	
	<hr/>	\$479.95
Paid labor of men and teams, as per pay-rolls, division No. 10:		
June.....	\$358.49	
July.....	174.13	
	<hr/>	\$532.62
Paid labor of men and teams, as per payroll, commons:		
June.....	\$21.00	
July.....	25.64	
August.....	1.99	
	<hr/>	\$48.63

## BIRTHS, MARRIAGES, DEATHS.

Paid O. D. Abbott, M. D.....	\$14.25
H. J. Achard, M. D.....	6.00
D. S. Adams, M D.....	1.50
Rev. F. S. Bacon.....	9.00
Rev. O. S. Baketel.....	.50
Rev. L. D. Bragg.....	1.00
A. A. E. Brien, M. D.....	20.75
Rev. M. W. Borthwick....	2.75
H. W. Boutwell, M. D....	1.75
Lillian G. Bullock, M. D..	.75
H. B. Burnham, M. D....	.25

Paid John L. Burnham, M. D. ....	\$6.75
I. L. Carpenter, M. D. ....	8.25
Rev. J. A. Chevalier. ....	22.75
Rev. T. E. Clapp. ....	2.00
Rev. N L. Colby. ....	16.75
Rev. H. E. Cooke. ....	4.50
Rev. E. Jay Cooke. ....	1.00
Rev. C. R. Crossett. ....	1.25
Charles Corey, M. D. ....	1.25
Mary L. Danforth, M. D. ....	19.00
G. M. Davis, M. D. ....	1.75
Charles E. Dodge, M. D. ....	5.00
C. M. Dodge, M. D. ....	7.00
C. W. Downing, M. D. ....	6.00
Henry Duchine, M. D. ....	.25
E. B. Dunbar, M. D. ....	11.50
John Ferguson, M. D. ....	59.50
C. F. Flanders, M. D. ....	39.50
A. M. Foster, M. D. ....	.25
J. E. Fortier, M. D. ....	41.50
George Frechette, M. D. ....	44.25
E. N. Fugere, M. D. ....	36.50
J. H. Gleason, M. D. ....	3.25
S. J. Girouard, M. D. ....	5.25
Moise Guerin, M. D. ....	33.75
M. Guggenheim, M. D. ....	3.75
Rev. C. R. Hennon. ....	21.00
Rev. P. Hevey. ....	10.75
Rev. C. D. Hills. ....	15.25
J. A. Jackson, M. D. ....	28.00
M. E. Kean, M. D. ....	12.25
Rev. G. L. Kibbee. ....	1.00
N. P. Kidder. ....	652.95
J. E. A. Lanouette, M. D. ....	44.00
P. G. Laberge, M. D. ....	16.50
J. D. Lemay, M. D. ....	20.25



Paid J. E. Lemaitre, M. D.....	\$14.25
Rev. J. J. Lyons.....	7.75
Rev. W. C. McAllester.....	5.50
J. W. D. McDonald, M. D....	23.25
G. B. Morey, M. D.....	2.00
Rev. W. H. Morrison.....	15.50
Jacob W. Mooar, M. D.....	2.25
C. A. Palmer, M. D.....	1.25
W. H. Pattee, M. D.....	1.75
Frederick Perkins, M. D....	9.25
Anna Pollmer, midwife.....	9.25
William Richardson, M. D....	.75
J. F. Robinson, M. D.....	6.25
J. L. Robinson, M. D.....	3.25
J. E. E. Roy, M. D.....	10.00
V. N. Sikosky, M. D.....	.25
Rev. C. J. Staples.....	1.75
Gillis Stark, M. D.....	21.00
C. O. Smith, M. D.....	.50
Servule St. Pierre, M. D....	14.00
A. G. Straw, M. D.....	1.50
Zatae L. Straw, M. D.....	5.50
F. C. Stuart, M. D.....	.75
C. B. Sturtevant, M. D.....	16.25
E. B. Swett, M. D.....	.25
E. Sylvain, M. D.....	17.25
W. F. Templeton, M. D.....	.25
Arthur J. Todd, M. D.....	.75
George D. Towne, M. D.....	2.00
E. C. Tremblay, M. D.....	43.25
L. Tremblay, M. D.....	8.00
R. L. True, M. D.....	2.50
Ellen A. Wallace, M. D.....	.50
George L. Wakefield, M. D...	2.00
George M. Watson, M. D....	.25
A. F. Wheat, M. D.....	3.00
	<hr/>
	\$1,516.70

## DAMAGES AND JUDGMENTS.

Paid August Berger, settlement of claim .....	\$19.00
L. B. Bodwell, damage to coal pocket by water.....	25.00
H. H. & W. B. Burpee, damage to real estate.....	175.00
D. J. Cameron, damage to house by water.....	17.00
Bridget Cahill, damage to wagon, etc.....	12.00
William Campbell, damage to real estate.....	50.00
Frank A. Colby, settlement of claim.....	75.00
Charles A. Flint, settlement of claim.....	75.00
C. B. Foster, ducks and hens killed by dog.....	10.00
Gage & Adams, settlement of suit.....	475.00
George W. Hamlin, damages for killing horse.....	36.00
Warren Harvey, damage to Burke house by change of grade.....	465.04
Ellen M. Johnson, settlement of claim.....	115.00
Joseph Lemay, settlement of suit.....	225.00
Michael Madden, settlement suit.....	150.00
G. H. & G. W. Morrison, settlement of suit.....	100.00
Samuel T. Page, settlement of suit.....	1,800.00

Paid Charles H. Paul, settlement of claim.....	\$15.00	
George W. Reed, damage to hack.....	5.45	
Charles Robitaille, settlement of claim.....	13.03	
C. E. Silver, settlement of suit.....	25.00	
Jacob and Dorothea Streit, settlement of claim.....	15.00	
John Z. Sprague, settlement of claim.....	300.00	
Hattie E. Wilson, settlement of claim.....	150.00	
Hattie E. Wilson, guardian, settlement of claim.....	100.00	
J. W. Wilson, damage to wagon.....	1.25	
	<hr/>	\$1,448.77

## LEGAL EXPENSES.

Paid W. C. Brown, services and expenses, Clough <i>v.</i> Manchester...	\$11.60
Paid C. H. Burns:	
Retainer in Canney case.....	10.00
One day's services examining case, etc.....	25.00
Paid George A. Cochran, services and expenses, hearing Clough <i>v.</i> City.....	18.00
D. F. Healy, serving notices, etc.....	11.34
Benjamin G. Herrick, services and expenses, hearing Clough <i>v.</i> City.....	14.00

Paid Dana W. King, copying deeds, etc.....	\$5.29	
Fred G. Stark, services and expenses securing quit-claim deed of South Main-street schoolhouse lot.....	25.00	
F. E. Shurtleff, copy of bill, taking testimony, etc.....	12.15	
	<hr/>	\$132.38

## CITY COUNCILS AND COMMITTEES.

## Paid F. L. Allen:

Expenses to Boston, sundry times, to deliver bonds.....	\$13.50
Expenses to Concord.....	.72
Express and telegrams.....	1.80
Paid American Bank Note Co., 370 lithographed bonds.....	257.00
John A. Barker, car fares....	5.05
George W. Bailey, hacks and carriages.....	68.00
Boyd Brothers, hacks.....	24.00
A. S. Campbell & Co., printing cards.....	1.25

## \* Paid The John B. Clarke Co., printing:

Blanks and circulars.....	6.00
100 copies "Tyng's Township"...	23.00
Advertising dog licenses.....	17.50
Advertising city meeting.....	9.50
Advertising proposals for fuel...	14.05
Advertising safe for sale.....	4.40
Paid Deutsche Post, advertising:	
Dog licenses.....	9.00
Proposals for fuel.....	1.50

Paid James E. Dodge:

Expenses to Boston, sundry times, to deliver bonds.....	\$10.45
Express on bonds.....	.15
Paid P. Donovan, Jr., hacks and teams.....	165.00
W. J. Freeman, hacks.....	35.00
E. T. James, hacks and carriages.....	54.00
E. J. Knowlton, P. M., postage stamps.....	25.00

Paid L'Avenir National, advertising:

Citizens' meeting.....	3.00
Proposals to furnish High school	3.00
Dog licenses.....	8.00
Proposals for fuel.....	4.50

Paid Le Merrimack Publishing Co., advertising:

Dog licenses.....	9.00
Proposals for fuel.....	4.50

Paid Manchester Street Railway, tickets.....

10.00

N. E. Telephone & Telegraph Co., use of telephone, solicitor.....

36.00

Plummer & Brown, hacks....

35.00

O. G. Reed, hacks.....

80.00

Charles H. Simpson, hacks...

105.00

Paid Union Publishing Co., advertising:

Proposals for stone bridge.....	5.46
Safe for sale.....	4.95
Assessors' notice.....	6.15

Paid Whitten & Fifield, use of team.....

2.50

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\$1,062.93

## CITY LIBRARY.

Paid John A. Barker, care of boiler.....	\$134.50
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## CITY SCALES.

Paid E. R. Coburn Co., paper, pens, ink, etc.....	\$2.99	
John Driscoll, coal-hod, ax...	1.24	
Asa B. Eaton, cash paid for washing windows.....	1.00	
C. A. Hoitt & Co., 7 chairs....	10.00	
Pike & Heald Co., cement, pipe, labor.....	9.09	
Paid D. M. Poore:		
2 cords hard wood, cut.....	16.00	
2 tons coal.....	13.25	
Paid John B. Varick Co., brooms, lamps, duster, ax, etc.....	4.96	
	<hr/>	\$58.53

## MILK INSPECTOR.

Paid E. C. Smith:		
Lactoscope, lactodensimeter....	\$11.00	
Milk grip.....	7.50	
Milk-cans, filtering paper, etc....	5.00	
	<hr/>	\$23.50

## RELATING TO STREETS.

Paid C. H. Wood, painting street signs.....	\$19.80	
John B. Varick Co., 5 lbs. nails.....	.19	
	<hr/>	\$19.99

## MAYOR.

Paid E. R. Coburn Co.:	
Paper.....	\$3.43
Glue and mucilage.....	.20

Paid Grace E. Downer, services as clerk.....	\$530.00	
J. G. Ellinwood, photographs city hall, Granite bridge, etc.....	15.70	•
W. P. Goodman, pencils and pens.....	8.50	
Paid C. A. Hoitt & Co.:		
1 jug.....	.25	
1 jardiniere stand.....	3.00	
Paid R. K. Horne, 1 flower-pot and saucer.....	.25	
Paid E. J. Knowlton, P. M.:		
Stamps.....	28.00	
Postals.....	1.00	
Paid D. L. Miller, 1 "Atlas of Man- chester".....	25.00	
A. H. Sanborn, photographs of flood.....	2.50	
Temple & Farrington Co., pa- per, envelopes.....	2.90	
F. H. Thurston, sponge.....	.35	
Paid George P. Wallace:		
Typewriter ribbons.....	2.00	
Carbon paper.....	.50	
Paid F. S. Webster & Co., type- writer ribbon, and oil.....	1.25	
	<hr/>	\$624.83

## ASSESSORS.

Paid Temple & Farrington Co.:		
Ink, blotting-paper, pads.....	\$1.13	
33 blank books, 3 canvas covers..	88.86	
54 blank books.....	25.45	
Paid B. W. Robinson, use of team, distributing inventory blanks...	2.50	
	<hr/>	\$117.94

## TAX COLLECTOR.

Paid E. R. Coburn Co., 1 blank book.....	\$1.65	
Fred W. Chamberlain, labor on tax bills.....	12.50	
Daniels & Downs, typewriting tax list.....	3.00	
E. J. Knowlton, P. M., stamped envelopes.....	43.60	
G. I. Haselton, 3 days' labor in office.....	4.50	
Lyons Platinum Pen Co., pens.....	4.00	
Paid George E. Morrill:		
Taxes of 1895 sold May 27, 1896, and purchased by city.....	3,602.86	
Distributing tax bills.....	91.40	
Paid S. J. Putnam, 4 days' labor in office.....	6.00	
Temple & Farrington Co., books, blocks, ink.....	7.06	
F. H. Thurston, brush.....	.20	
John B. Varick Co., cash-box.....	1.50	
	<hr/>	\$3,778.27

## CITY CLERK.

Paid Florence M. Kidder, clerk....	\$512.00	
J. B. McCrillis & Son, paper, fasteners, and punch.....	3.20	
D. L. Miller & Co., 1 "Atlas of Manchester".....	25.00	
Temple & Farrington Co., rubber bands, etc.....	1.30	
	<hr/>	\$541.50



## CITY TREASURER.

Paid D. J. Adams, keys.....	\$0.50	
W. E. Buck, pencil sharpener	.75	
Blanche E. Bullock, services as clerk.....	549.00	
H. S. Clay, ink eraser.....	.40	
Daniels & Downs, typewrit- ing.....	5.00	
W. P. Goodman, rubber bands, blank books.....	2.75	
E. P. Gerould & Co., letter book.....	3.50	
E. J. Knowlton, P. M., post- age stamps.....	130.00	
Jennie W. Ladd, 12 pens.....	.25	
Lyons Platinum Pen Co., pens	2.00	
Manchester Hardware Co., chamois, scissors.....	.51	
Novelty Advertising Co., 1 set dates.....	.50	
W. H. Shilcock, wood engrav- ing, autograph, stamp, and pad.....	1.50	
Temple & Farrington Co., ink, books, envelopes, blocks, etc.....	6.10	
G. H. Warren, sharpening scissors, erasers.....	.30	
	<hr/>	\$703.06

## COURT HOUSE.

Paid D. J. Adams, repairing lawn- mower.....	\$3.00
D. J. Adams, making keys...	.70
L. M. Aldrich, putting on windows.....	.65

Paid county of Hillsborough, one half expense of coal, 24 tons, 650 lbs.....	\$79.05	
Timothy P. Shea, janitor.....	531.66	
E. V. Turcotte, 25 tons coal..	133.75	
John B. Varick Co., water- pot, brooms, etc.....	3.53	
	<hr/>	\$752.34

## SCHOOLS.

Paid Jos. A. Chamberlain, trees and setting.....	\$74.80	
Orison Hardy, trees, etc....	63.94	
	<hr/>	\$138.74

## ELECTION EXPENSES.

Paid J. W. Abbott, rendering re- port election, stationery, etc.....	\$5.80	
C. A. Allen, postage, fees, etc.	5.15	
Paid L. M. Aldrich:		
44 ballot boards.....	22.80	
Lumber and labor.....	34.10	
Paid D. G. Andrews, material and labor, ward 2.....	11.25	
Charles E. Bartlett, election returns.....	1.00	
A. G. Bean, labor, ward 6....	2.25	
William C. Clarke, express on grate, ward 5 ward room..	.40	
C. B. Clarkson, labor and ma- terial, ward 4.....	16.36	
E. P. Cogswell, labor, ward 6	3.50	
Paid W. E. Cobb:		
Rent Mechanics hall, special election.....	50.00	

Rent Mechanics' hall, ward 3 election.....	\$150.00	
Paid E. R Coburn Co., pencils.....	.95	
Joseph Dana, labor, material, ward 9.....	19.85	
A. B. Dickey, use of team....	.50	
G. H. Dudley, labor, ward 2..	5.00	
S. C. Forsaith Machine Co., sawdust.....	2.00	
The Head & Dowst Co., labor and material.....	9.17	
C. A. Hoitt & Co., use of ta- bles.....	1.00	
C. F. Jack, cleaning Blodget- street school rooms.....	2.00	
H. F. W. Little, material and labor.....	31.00	
J. Y. McQuesten Co., chairs, table.....	9.25	
Paid Temple & Farrington Co.:		
18 dozen pencils.....	7.56	
Sealing-wax.....	1.50	
Paid Martin J. Whalen, pencils, ink, postage.....	3.60	
John H. Wales, Jr., pencils, ink, pens.....	.50	
	<hr/>	\$396.49

## SUNDRIES.

Paid American Express Co., ex- press on reports.....	\$8.32
Amoskeag National Bank, rent of safe deposit box....	25.00
Clark M. Bailey, paper.....	.66

## Paid George W. Bailey:

Use horse and driver for ambulance.....	\$1.00
Care of ambulance.....	18.00
Paid C. M. Bailey, V. S., examining glandered horse.....	2.00
Boston & Maine R. R., freight on fountain.....	1.12
William Campbell, labor corner North Union street and River road, per agreement.	50.00

## Paid William C. Clarke, cash expended:

Expenses of committee on Granite bridge to Lowell, Boston, and vicinity.....	87.40
Expenses of committee on lands and buildings to Somerville, etc.....	31.85
Expenses of committee to various cities inspecting police patrol systems.....	138.65
Paid Concord Foundry Co., 1 fountain.....	100.00
Joseph Dana, lumber and building staging, Oak Hill.	89.96
E. O. Dodge, bounty on hawks	.50
James E. Dodge, cash paid for delivering reports....	1.55
Dustin & Heath, tax of Davis & Sargent, 1893.....	14.32

## Paid H. B. Fairbanks:

Services selling Wilson school-house lot.....	73.71
Advertising .....	28.00

Paid George Ferry, horse killed, glanders.....	\$10.00
First Light Battery, powder, etc., firing salute July 4....	42.00
George C. Gilmore, expenses and services acquiring pro- prietors' records of Tyng's Township.....	76.75
John F. Gillis, transfers of real estate for assessors...	9.00
Carl Harrington, bounty on hawks.....	.75
The Head & Dowst Co., lum- ber, labor.....	5.84
T. A. Lane Co., pipe and la- bor, Merrimack common...	2.37
D. L. Miller & Co., 1 "Atlas of Manchester".....	25.00
Mary Nolan, cleaning offices..	30.00
A. H. Sanborn, photograph flood, engineer.....	2.50
Sampson, Murdock & Co., 25 directories.....	50.00
Frank Sullivan, labor, per May and August draft, 1879.....	6.87
R. V. Sullivan, bounty on hawk.....	.25
Taggart & Manahan, services selling School-street lots...	70.43
Temple & Farrington Co., 100 mailing cases, auditor.	5.00
town of Goffstown, taxes on gravel lots.....	2.30

Paid John W. Wilson, freight and cartage.....	\$0.90	
C. H. Wood, painting signs...	2.75	
		<u>\$1,014.75</u>
Total expenditures.....		\$16,526.42
Transferred to appropriation for new school- house, West Manchester.....		2,000.00
		<u>\$18,526.42</u>

### City Officers' Salaries.

Appropriation.....	<u>\$21,000.00</u>
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### EXPENDITURES.

#### CENTRAL DEPARTMENT.

Paid William C. Clarke, mayor....	\$1,800.00	
Fred L. Allen, treasurer.....	1,200.00	
Nathan P. Kidder, clerk.....	900.00	
Edwin F. Jones, solicitor....	800.00	
George L. Stearns, clerk com- mon council.....	200.00	
Thomas W. Lane, inspector of buildings.....	100.00	
Edward C. Smith, milk in- spector.....	300.00	
Asa B. Eaton, city weigher..	400.00	
John A. Barker, messenger..	700.00	
J. K. Rhodes, messenger, two weeks.....	24.00	
		<u>\$6,424.00</u>

## CITY PHYSICIAN AND OVERSEERS OF THE POOR.

Paid Frederick Perkins, city physician .....	\$600.00	
W. H. Maxwell, ward 1.....	25.00	
Thomas L. Quimby, ward 2...	25.00	
Benjamin F. Garland, ward 3	25.00	
George S. Holmes, ward 4....	25.00	
Patrick Costello, ward 5.....	25.00	
Charles Francis, ward 6.....	25.00	
William Marshall, ward 7...	25.00	
Charles S. McKean, ward 8..	25.00	
Moise Bessette, ward 9.....	10.60	
Leander S. Boivin, ward 9..	12.50	
W. C. Clarke, chairman <i>ex-officio</i> .....	25.00	
William H. Maxwell, clerk of the board.....	100.00	
Judith Sherer, matron of pest-house .....	360.00	
	————	\$1,308.10

## SCHOOL OFFICERS AND BOARD OF SCHOOL COMMITTEE.

Paid W. E. Buck, superintendent of schools .....	\$2,300.00
Curtis W. Davis, truant officer .....	750.00
W. C. Clarke, chairman <i>ex-officio</i> .....	10.00
E. B. Woodbury, clerk of board .....	150.00
John T. Gott, president of common council <i>ex-officio</i> ..	10.00
Walter B. Heath, ward 1....	10.00
Elliott C. Lambert, ward 1...	10.00
A. P. Horne, ward 2.....	10.00
Charles H. Manning, ward 2..	10.00

Paid George D. Towne, ward 3.....	\$10.00
Louis E. Phelps, ward 3.....	10.00
C. M. Floyd, ward 4.....	10.00
Nathaniel L. Colby, ward 4...	10.00
James P. Slattery, ward 5....	10.00
Harry J. Woods, ward 5.....	10.00
Harry I. Dodge, ward 6.....	10.00
Herbert E. Richardson, ward 6.....	10.00
Edward B. Woodbury, ward 7	10.00
Marshall P. Hall, ward 7....	2.00
Fred W. Pillsbury, ward 7...	8.00
Luther C. Baldwin, ward 8...	10.00
Josiah G. Dearborn, ward 8..	10.00
Robert E. Walsh, ward 9....	10.00
Jeremiah Sullivan, ward 9...	10.00
	<hr/>
	\$3,400.00

## BOARD OF ASSESSORS.

Paid Henry E. Lewis, ward 1.....	\$147.50
John E. Stearns, ward 2.....	212.50
David O. Fernald, ward 3....	922.50
Harrison D. Lord, ward 4....	343.00
George F. Sheehan, ward 5...	147.50
George H. Dudley, ward 6...	477.50
William T. Rowell, ward 7...	152.50
Eugene W. Brigham, ward 8.	452.50
Julius Weisner, ward 9.....	95.00
Hiram Forsaith, assistant...	80.00
N. Nichols, assistant.....	315.00
John Cayzer, assistant.....	40.00
H. F. Stone, assistant.....	62.50
Isaac L. Whittemore, assist- ant.....	107.00



Paid Harvey L. Currier, clerical services.....	\$180.00	
Arthur W. Rowell, clerical services.....	80.00	
Joseph Collette, interpreter..	52.50	
Louis Comeau, interpreter...	40.00	
C. A. U. Ouellette, interpreter	40.00	
Joseph Berube, interpreter..	14.63	
George H. Nichols, use of team.....	6.75	
	<hr/>	\$3,968.88

## TAX COLLECTOR.

Paid George E. Morrill, salary.....	\$800.00
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## MODERATORS, 1895 AND 1896.

Paid A. W. Eastman, ward 1.....	\$15.00	
Lyman W. Colby, ward 2....	15.00	
Arthur S. Bunton, ward 3....	15.00	
George A. Bailey, ward 4....	15.00	
John B. Rodgers, ward 5.....	15.00	
Herbert S. Clough, ward 6...	15.00	
J. Adam Graf, ward 7.....	15.00	
Robert E. McKean, ward 8...	15.00	
John T. Hannigan, ward 9...	15.00	
	<hr/>	\$135.00

## WARD CLERKS, 1895 AND 1896.

Paid Frank X. Foster, ward 1....	\$20.00	
Charles A. Allen, ward 2....	20.00	
John H. Hayes, ward 3.....	20.00	
J. W. Abbott, ward 4.....	20.00	
Martin J. Whalen, ward 5....	20.00	
Arthur B. Dickey, ward 6....	20.00	
Charles E. Bartlett, ward 7..	20.00	
Joseph R. Fradd, ward 8....	20.00	
Frank I. Lessard, ward 9.....	20.00	
	<hr/>	\$180.00

## INSPECTORS OF CHECK-LIST, 1895 AND 1896.

Paid George C. Kemp, ward 1, 46	
days.....	\$103.50
Charles B. Tucker, ward 2, 62	
days.....	139.50
William B. Corey, ward 3, 66	
days.....	148.50
Paid Samuel J. Lord:	
Ward 4, 68 days.....	153.00
Cash paid interpreter.....	10.13
Paid Patrick E. Daley, ward 5, 51	
days.....	114.75
Paid Arthur J. Peaslee:	
Ward 6, 70 days.....	157.50
Horse and carriage.....	12.50
Paid Joseph A. Foster, ward 7, 55	
days.....	123.75
Charles C. Tinkham, ward 8,	
66 days.....	148.50
Joseph B. Bourque, ward 9,	
55 days.....	132.75
Isaac Whittemore, ward 5,	
assistant, 24 days.....	54.00
William B. Corey, ward 3,	
special election, December	
27, 1895, 14½ days.....	32.63
	<hr/>
	\$1,331.01

## SELECTMEN, 1895 AND 1896.

Paid John H. Wales, Jr., ward 1...	\$15.00
Olaf Nyberg, ward 1.....	15.00
Alexander Hanna, ward 1...	15.00
Daniel G. Andrews, ward 2..	15.00
Fred K. Ramsay, ward 2....	15.00
William H. Maxwell, ward 2.	15.00

Paid George N. Baker, ward 3....	\$15.00
John Cronin, ward 3.....	15.00
Edward C. Smith, ward 3....	3.50
Charles H. Bartlett, ward 4..	15.00
Charles B. Clarkson, ward 4..	15.00
Patrick Maloney, ward 5....	15.00
Robert F. Murray, ward 5..	15.00
Thomas A. Foley, ward 5....	15.00
George M. Bean, ward 6....	15.00
Harrison W. Heselton, ward 6.....	15.00
Edward P. Cogswell, ward 6.	15.00
H. R. Armstrong, ward 7....	15.00
Robert Leggett, ward 7.....	15.00
Zara B. Sawyer, ward 7.....	15.00
Hervey Stratton, ward 8....	15.00
William H. Marshall, ward 8.	15.00
George W. Flint, ward 8....	15.00
Albert Oliver, ward 9.....	15.00
Martin Rafferty, ward 9....	15.00
Joseph Trehan, ward 9.....	15.00

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\$378.50

## ELECTION INSPECTORS, 1895 AND 1896.

Paid Arthur W. Patch, ward 1....	\$10.00
Charles Edgar, ward 1.....	10.00
Benjamin F. Cudden, ward 1.	10.00
John B. Reardon, ward 1.....	10.00
Benjamin F. Clark, ward 2..	10.00
Edward C. Smith, ward 2....	10.00
John W. Center, ward 2.....	10.00
Frank A. Gay, ward 2.....	10.00
George E. Prime, ward 3....	10.00
F. Marcotte, ward 3.....	10.00
George W. Fowler, ward 3...	10.00
Aimie Boisvert, ward 3.....	10.00

Paid Ludger E. Desrochers, ward 4.	\$10.00
Cyrille E. Lebrun, ward 4....	10.00
Frank H. Lussier, ward 4....	10.00
John F. Gillis, ward 4.....	10.00
John H. Slater, ward 5.....	10.00
Michael Hawkins, ward 5....	10.00
John C. Ryan, ward 5.....	10.00
John Lynch, ward 5.....	10.00
Edwin N. Baker, ward 6....	10.00
Charles Lucier, ward 6.....	10.00
William H. Moison, ward 6..	10.00
Charles A. O'Connor, ward 6.	10.00
William F. Welch, ward 7...	10.00
George H. Shields, ward 7...	10.00
Arthur W. Rowell, ward 7...	10.00
Henry W. Allen, ward 7....	10.00
Frank O. Clement, ward 8...	10.00
Theodore Graf, ward 8.....	10.00
Herman Leibing, ward 8....	10.00
William Doherty, ward 8....	10.00
Frank I. Lessard, ward 9....	10.00
John Montplaisir, ward 9....	10.00
Scott E. Sanborn, ward 9....	10.00
John E. Herring, ward 9....	10.00
	<hr/>
	\$360.00
Total expenditures.....	\$18,285.49
Transferred to reserved fund.....	2,714.51
	<hr/>
	\$21,000.00
	<hr/>

## Auditor's Department.

Appropriation.....	\$2,000.00
	<hr/>

## EXPENDITURES.

## LABOR.

Paid James E. Dodge, salary as auditor.....	\$1,200.00	
Lizzie M. Cogswell, services as clerk.....	660.00	
	<hr/>	\$1,860.00

## SUPPLIES, ETC.

Paid L. B. Bodwell & Co., ice, July 16 to October 20.....	\$4.74	
Paid The John B. Clarke Co., printing:		
Envelopes, note headings.....	16.10	
Blocks.....	.25	
Paid E. R. Coburn Co., blotting-paper.....	.75	
Paid Lizzie M. Cogswell, cash paid:		
Pencils, paper, brushes, chamois, pail.....	.80	
Soap, postal cards, paper-knife..	1.13	
Pencil sharpener, paper.....	2.55	
Washing office towels.....	2.80	
Paid City Government Publishing Co., 1 year's subscription to magazine.....	3.00	
The Carter's Ink Co., type-writer ribbons.....	2.00	
Daniels & Downs, 4 reams paper.....	8.00	
Warren S. Dobson, paper fastener.....	2.00	
J. G. Ellinwood, photograph, city hall.....	1.00	

Paid A. M. Finney, cleaning rugs..	\$1.05	
W. P. Goodman, pen-holders, inkstand, ink, pencils, mu- cilage.....	2.90	
Hale & Whittemore, framing picture.....	1.75	
C. A. Hoitt & Co., 1 desk.....	32.50	
R. K. Horne, 2 glasses.....	.10	
Thomas Lyons, 2 boxes pens.	4.00	
Morgan, Crossman & Co., 1 stamp and pad.....	1.80	
N. H. Furniture Store, 1 table	1.75	
Arthur J. Smith, carbon pa- per.....	6.00	
Paid Temple & Farrington Co.:		
Erasers, paste.....	2.05	
1 blank book.....	3.00	
3 blank books.....	6.00	
Paid John B. Varick Co., shears...	.75	
George P. Wallace, type- writer ribbon.....	1.00	
	<hr/>	\$109.77
Total expenditures.....		\$1,969.77
Transferred to reserved fund.....		30.23
		<hr/>
		<u>\$2,000.00</u>

## Mayor's Incidentals.

Appropriation.....	\$300.00
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## EXPENDITURES.

Paid Boyd Brothers, teams.....	\$7.00
Paid W. C. Clarke:	
Team hire.....	142.00

Telegrams .....	\$1.09	
Express and repairing chair....	.60	
Semi-centennial incidentals.....	67.50	
Incidentals .....	31.35	
	<hr/>	\$249.54
Total expenditures.....		\$249.54
Transferred to reserved fund.....		50.46
	<hr/>	\$300.00
	<hr/>	

## Street and Park Commission.

Appropriation.....	\$4,000.00
	<hr/>
	<hr/>

## EXPENDITURES.

## SALARIES.

Paid George H. Stearns.....	\$600.00	
L. P. Reynolds.....	165.00	
H. P. Simpson.....	600.00	
Byron Worthen.....	438.00	
	<hr/>	\$1,803.00

## CLERICAL SERVICES.

Paid A. E. Herrick.....	\$317.50	
George H. Stearns.....	330.00	
Julia F. Stearns.....	526.96	
	<hr/>	\$1,174.46

## USE OF TEAMS.

Paid L. P. Reynolds.....	\$37.50	
George H. Stearns.....	150.00	
H. P. Simpson.....	150.00	
Byron Worthen.....	109.50	
	<hr/>	\$447.00

## OFFICE SUPPLIES.

Paid The John B. Clarke C <sup>o</sup> ., printing:		
400 blanks.....	\$3.25	
250 reports.....	70.00	
Paid E. R. Coburn Co., 6 frames....	6.50	
J. G. Ellinwood, photographs and frame.....	8.35	
D. L. Miller & Co., 1 "Atlas of Manchester".....	25.00	
N. E. Telephone & Telegraph Co., use of telephone.....	39.75	
W. H. Shilvock, 1 half-tone cut.....	4.50	
Julia F. Stearns, pencil sharpener.....	.75	
George H. Stearns, pens....	2.00	
Paid Temple & Farrington Co.:		
Blank books.....	23.84	
Canvas covers.....	7.95	
Blocks, pencils, pay-roll sheets..	12.72	
Paid John B. Varick Co., shears, twine, awl, knife, pliers....	2.95	
George P. Wallace, type- writer ribbon.....	1.00	
J. Arthur Williams, rubber stamp and pad.....	.65	
	<hr/>	\$209.21

## SUNDRIES.

Paid Bunton Brothers & Co., re- seating chairs.....	\$10.05
L. P. Reynolds, expenses of commission to Boston....	7.50
Paid H. P. Simpson:	
Expenses commission to Boston, sundry times.....	23.55



Expenses commission, Messrs. Ames and Cheney, to Concord and Lowell .....	\$13.25	
Expenses commission and Mr. J. B. Smith to Boston.....	10.04	
Paid George H. Stearns, expenses commission to Goffstown and Boston .....	13.97	
	<hr/>	\$78.36
Total expenditures.....	\$3,712.03	
Transferred to reserved fund.....	287.97	
	<hr/>	\$4,000.00
	<hr/>	

## Repairs of Highways.

Appropriation.....	\$19,000.00	
Transferred from reserved fund...	312.78	
	<hr/>	\$19,312.78
	<hr/>	

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll, division No. 1:		
April .....	\$31.75	
September .....	9.75	
	<hr/>	\$41.50
Paid labor of men and teams, as per pay-roll, division No. 2:		
January.....	\$183.04	
March .....	83.37	
April .....	1,500.70	
May .....	1,886.11	
June .....	1,902.06	
July.....	898.23	

August .....	\$1,341.86	
September.....	429.81	
October.....	151.11	
December.....	44.66	
	<hr/>	\$8,420.95
Paid labor of men and teams, as per pay-roll, division No. 4:		
April .....	\$108.25	
May .....	55.00	
June .....	104.25	
July.....	45.50	
August.....	49.12	
September.....	50.00	
October.....	56.00	
	<hr/>	\$468.12
Paid labor of men and teams, as per pay-roll, division No. 5:		
April .....	\$112.00	
May .....	221.75	
June .....	110.50	
October.....	5.50	
November.....	18.00	
	<hr/>	\$467.75
Paid labor of men and teams, as per pay-roll, division No. 6:		
March .....	\$25.00	
April .....	60.13	
May .....	109.75	
June .....	22.25	
July.....	11.75	
August.....	5.00	
September.....	30.87	
October.....	27.25	
November.....	18.37	
	<hr/>	\$310.37

Paid labor of men and teams, as per pay-roll,  
division No. 7:

January.....	\$79.09
March.....	110.13
April.....	323.33
May.....	180.00
June.....	150.00
July.....	280.82
August.....	190.25
September.....	16.00
October.....	104.06
December.....	12.75

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\$1,446.43

Paid labor of men and teams, as per pay-roll,  
division No. 8:

April.....	\$57.09
June.....	175.00
July.....	544.37
August.....	170.13
September.....	205.48
October.....	111.30
December.....	19.67

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\$1,283.04

Paid labor of men and teams, as per pay-roll,  
division No. 9:

April.....	\$29.03
May.....	117.00
June.....	207.50
July.....	56.75
September.....	38.25

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\$448.53

Paid labor of men and teams, as per pay-roll,  
division No. 10:

January.....	\$104.84
February.....	42.60
March.....	48.53

April.....	\$455.05	
May.....	192.87	
June.....	285.50	
July.....	335.98	
August.....	208.20	
September.....	157.63	
October.....	364.30	
November.....	204.64	
December.....	64.37	
	<hr/>	\$2,464.51
Paid labor of men and teams, as per pay-roll, division No. 12:		
April.....	\$28.52	
September.....	46.00	
	<hr/>	\$74.52
Paid John H. Proctor, labor on Candia road.....		
	\$100.00	
C. S. Whittaker, building cul- vert, per contract.....	30.00	
	<hr/>	\$130.00

## LUMBER AND OTHER MATERIAL.

Paid James Baldwin Co., plank....	\$8.64	
C. W. Farmer, 137 posts.....	17.12	
F. R. French, 60 posts.....	7.20	
Paid The Head & Dowst Co.:		
Lumber and labor.....	257.69	
Drag plank.....	11.68	
Paid G. W. Rief, lumber and labor.	16.36	
A. C. Wallace, lumber and la- bor.....	144.90	
C. M. Wheeler, 276 posts....	30.36	
	<hr/>	\$493.95

## TOOLS AND HARDWARE.

Paid Allen N. Clapp, nails.....	\$0.75
J. H. Farnham, files and rasps	10.25

## Paid J. Hadlock:

1 road machine, less old machine	\$230.00
Edges and bolts.....	16.50

Paid Manchester Hardware Co., shovels, spikes, chain.....	4.90
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## Paid John B. Varick Co.:

1 grindstone.....	7.00
2 brushes.....	4.00
1 cutter.....	2.00

Iron, drills, files, saws, nails, paint, scoops.....	98.67
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Shovels, barrows, steel, nuts, washers.....	191.01
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\$565.08

## REPAIRS.

Paid R. W. Flanders, sharpening tools.....	\$4.90
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C. A. Healy, painting foun- tains.....	21.27
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C. H. Hutchinson Foundry & Machine Works, washers, etc.....	.88
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## Paid T. A. Lane Co.:

Material and labor, troughs and fountains.....	27.97
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Dippers.....	2.64
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Paid F. I. Lessard & Co., repairing fountain.....	5.61
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Maynard & Hevey, material and labor, thawing out troughs, etc.....	5.13
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C. H. Robie Co., concreting..	414.65
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L. & W. T. Seiberlich, paint..	5.47
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J. T. Underhill, concreting...	922.97
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F. W. Webb, labor on trough.	.92
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\$1,412.41

## STONE, GRAVEL, CLAY, ETC.

Paid Adams Brothers, lime.....	\$0.95	
F. S. Bodwell, covering stone.	10.00	
Byron Corning, 158 loads gravel .....	15.80	
Devonshire Mills, 250 loads gravel.....	15.00	
M. E. Dickey, 38 loads gravel.	3.80	
A. G. Gray, 501 loads gravel..	50.10	
Austin Goings, 20 loads sand.	3.33	
Mark E. Harvey, 52 loads gravel .....	5.20	
Warren Harvey, covering stone .....	51.00	
Ida Libbey, 798 loads gravel..	79.80	
John Lovering, 190 loads gravel.....	19.00	
Byron E. Moore, 75 loads clay	4.50	
Partridge Brothers, lime.....	.95	
A. P. Tasker, lime.....	4.75	
C. C. Webster, 50 loads clay..	3.00	
	<hr/>	\$267.18

## MISCELLANEOUS.

Paid L. M. Aldrich, filing saws.....	\$1.10
Paid James Briggs & Son:	
36 dippers .....	5.25
Repairing pipe .....	1.35
Paid Boston & Maine R. R., freight on road-scraper .....	7.15
J. H. Chamberlain, 1 tree....	2.00
Allen N. Clapp, 101 gallons oil .....	11.62
Robert Clark, moving tree...	1.00

Paid Dunlap & Wason Coal Co., 2 tons coal.....	\$11.00	
C. H. Simpson, use of teams..	18.00	
Paid Temple & Farrington Co.:		
2 directories.....	4.00	
Pencils, ink, books.....	2.13	
Paid L. B. West Co., 40 dippers and cups.....	6.00	
R. M. West, ladders.....	6.00	
	<hr/>	\$76.60
Total expenditures.....	\$18,370.94	
Transferred to appropriation for snow and ice.	941.84	
	<hr/>	\$19,312.78
		<hr/>

## Snow and Ice.

Appropriation.....	\$4,000.00	
Transferred from repairs of high- ways account .....	941.84	
Transferred from reserved fund...	308.94	
	<hr/>	\$5,250.78
		<hr/>

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll, division No. 1:		
January.....		\$18.75
Paid labor of men and teams, as per pay-roll, division No. 2:		
January.....	\$581.84	
February.....	1,182.60	
March.....	970.85	
April.....	126.70	
December.....	181.31	
	<hr/>	\$3,043.30

Paid labor of men and teams, as per pay-roll,  
division No. 4:

March ..... \$56.50

Paid labor of men and teams, as per pay-roll,  
division No. 5:

January ..... \$1.50

March ..... 28.26

           \$29.76

Paid labor of men and teams, as per pay-roll,  
division No. 6:

January ..... \$5.00

March ..... 50.15

           \$55.15

Paid labor of men and teams, as per pay-roll,  
division No. 7:

January ..... \$77.74

February ..... 80.56

March ..... 110.12

           \$268.42

Paid labor of men and teams, as per pay-roll,  
division No. 8:

January ..... \$1.50

March ..... 34.85

           \$36.35

Paid labor of men and teams, as per pay-roll,  
division No. 9:

March ..... \$17.25

Paid labor of men and teams, as per pay-roll,  
division No. 10:

January ..... \$354.22

February ..... 404.89

March ..... 463.15

April ..... 51.04

December ..... 127.63

           \$1,400.93



Paid labor of men and teams, as per pay-roll,  
commons:

January.....	\$28.12	
February.....	27.37	
	<hr/>	\$55.49

## MISCELLANEOUS.

Paid A. B. Black, 5 snow-plows....	\$200.00	
Boston & Maine R. R., freight	2.75	
A. N. Clapp, 1 bag salt.....	.75	
The Head & Dowst Co., lum- ber and labor on snow- plows.....	16.83	
J. F. Wyman, 2 tons coal.....	13.25	
Paid John B. Varick Co.:		
24 snow shovels.....	9.00	
24 scoops.....	14.00	
Paint, iron, chain.....	12.30	
	<hr/>	\$268.88
Total expenditures.....		<u><u>\$5,250.78</u></u>

## New Highways.

Appropriation.....	<u><u>\$20,000.00</u></u>
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## EXPENDITURES.

## LABOR.

Paid men, as per pay-roll, division No. 2:

January.....	\$175.77
February.....	36.00
March.....	36.00
April.....	61.76
May.....	823.19
June.....	443.81
July.....	509.28
August.....	362.67

September.....	\$1,605.53	
October.....	900.57	
November.....	668.06	
December.....	715.23	
	<hr/>	\$6,337.87
Paid men, as per pay-roll, division No. 5:		
August.....	\$116.38	
September.....	93.12	
	<hr/>	\$209.50
Paid men, as per pay-roll, division No. 7:		
May.....	\$354.00	
June.....	298.25	
August.....	114.52	
October.....	178.37	
November.....	150.50	
December.....	48.01	
	<hr/>	\$1,143.65
Paid men, as per pay-roll, division No. 8:		
May.....	\$315.82	
June.....	772.40	
November.....	94.75	
December.....	42.25	
	<hr/>	\$1,225.22
Paid men, as per pay-roll, division No. 10:		
April.....	\$306.75	
May.....	1,245.17	
June.....	1,838.89	
July.....	1,421.44	
August.....	156.10	
September.....	144.00	
October.....	362.70	
November.....	360.26	
December.....	231.64	
	<hr/>	\$6,066.95
Paid men, as per pay-roll, division No. 12:		
September.....		\$815.20

Paid Clemens Langer, furnishing, putting up, and painting iron pipe railing, new bridge, per contract.....	\$74.00	
Wallace Laird, building two culverts, River road.....	100.00	
Fred Mahron, building stone wall, Mast road, per con- tract.....	106.87	
Moore & Webster, building South Beech street, per contract.....	650.00	
G. W. Rief, labor on street signs.....	5.40	
	<hr/>	\$936.27

## TOOLS AND HARDWARE.

Paid Manchester Hardware Co., nails.....	\$0.38	
B. H. Piper Co., 48 pick han- dles.....	7.40	
John B. Varick Co., plows, plow points, rakes, ham- mers, powder, fuse, etc....	78.25	
	<hr/>	\$86.03

## STONE, LUMBER, AND OTHER MATERIAL.

Paid Charles A. Bailey, covering, paving, and curb-stone....	\$1,201.63	
F. S. Bodwell, covering stone	34.75	
E. O. Dodge, 3 loads stone....	3.00	
Warren Harvey, covering stone.....	73.60	
The Head & Dowst Co., lum- ber.....	7.68	

Paid C. H. Robie Co., 14 loads gravel .....	\$10.50	
Palmer & Garmons, 6 loads stone .....	6.00	
A. C. Wallace, lumber .....	50.13	
David Wells, 175 posts .....	21.00	
		<hr/>
		\$1,408.29

## SUNDRIES.

Paid L. M. Aldrich, filing saws ....	\$0.55	
James H. Cram, sharpening tools .....	22.35	
R. W. Flanders, sharpening picks .....	.90	
Albert Moulton, 2 water bar- rels .....	.80	
C. H. Robie Co., concreting walks, Granite bridge .....	107.15	
C. H. Simpson, use of teams ..	12.00	
Soule, Dillingham & Co., pav- ing ends and approaches, Granite bridge .....	244.79	
		<hr/>
		\$388.54
		<hr/>
Total expenditures .....	\$18,617.52	
Balance to new account .....	1,382.48	
		<hr/>
		\$20,000.00
		<hr/>

## Damage of Land Taken for Highways.

Appropriation .....	\$5,000.00
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## EXPENDITURES.

Paid Mrs. Lucie A. Clough, land damage .....	\$1,034.79
Clinton French, administra- tor of estate of Charles T. Harvell, land damage .....	1,231.25

Paid A. W. Morgan, services and expenses, summoning witnesses, <i>Clough v. City</i> .....	\$19.74	
D. A. Taggart, settlement of action, R. N. Batchelder, G. F. Higgins, admr. M. C. Higgins, J. M. Clark <i>v. City</i>	625.34	\$2,911.12
		<hr/>
Total expenditures.....		\$2,911.12
Transferred to reserved fund.....		2,088.88
		<hr/>
		<u>\$5,000.00</u>

### Widening and Straightening Old Mammoth Road.

Appropriation.....	<u>\$1,000.00</u>
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### EXPENDITURES.

#### LABOR.

Paid labor of men, as per pay-roll, division No. 2:		
October.....	\$824.50	
November.....	175.50	
	<hr/>	\$1,000.00
Total expenditures.....		<u>\$1,000.00</u>

### Watering Streets.

Appropriation.....	<u>\$5,000.00</u>
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## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division  
No. 2:

January.....	\$11.81
February.....	12.21
March.....	24.97
April.....	194.76
May.....	512.18
June.....	521.20
July.....	480.18
August.....	404.50
September.....	203.30
October.....	147.60
November.....	77.12
December.....	34.92

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\$2,624.75

Paid labor of men, as per pay-roll, division  
No. 10:

January.....	\$13.94
February.....	10.52
March.....	8.32
April.....	28.00
May.....	184.00
June.....	177.37
July.....	154.00
August.....	125.00
September.....	92.00
October.....	16.00
November.....	4.00
December.....	3.37

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\$816.52

## REPAIRS, SUPPLIES, ETC.

Paid Abbott-Downing Co., 1 large sprinkler.....	\$325.00	
Amoskeag Manufacturing Co., material and labor....	33.43	
John T. Beach, repairs on sprinkler.....	3.80	
J. R. Carr & Co., paint and labor.....	1.20	
A. Filion, pole for sprinkler..	3.00	
J. W. Fisk, 1 fountain.....	200.00	
Warren Harvey, stone.....	13.50	
R. K. Horne, dippers.....	1.20	
C. H. Hutchinson Foundry & Machine Works, labor on rocker iron.....	3.35	
Kimball Carriage Co., leather piping.....	2.00	
Paid Thomas A. Lane Co.:		
Repairs on standpipes.....	12.86	
Couplings, valves, bends, etc....	23.95	
Paid Lessard & Hevey, repairs on sprinkler.....	2.05	
Manchester Heating & Lighting Co., 2 standpipes with valves.....	17.00	
Manchester Water-Works, work on standpipes.....	72.00	
Pike & Heald Co., repairs on sprinkler.....	.95	
H. Stratton, cleaning and repairing pipes to fountain...	1.00	
	<hr/>	\$716.29

## HARDWARE.

Paid Manchester Hardware Co., wrench, lead pipe.....	\$2.98	
John B. Varick Co., hardware	31.44	
	<hr/>	\$34.42

## SUNDRIES.

Paid Boston & Maine R. R., freight.....	\$4.50	
Total expenditures.....	\$4,196.48	
Transferred to reserved fund.....	803.52	
	<hr/>	\$5,000.00
	<hr/>	

## Paving Streets.

Appropriation.....	\$6,000.00	
Transferred from reserved fund...	320.69	
	<hr/>	\$6,320.69
	<hr/>	

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll, division No. 2:		
April.....	\$98.37	
May.....	475.88	
June.....	260.42	
July.....	375.21	
August.....	256.40	
September.....	214.81	
	<hr/>	\$1,681.09



Paid labor of men and teams, as per pay-roll,  
division No. 7:

October..... \$15.00

Paid labor of men and teams, as per pay-roll,  
division No. 10:

January.....	\$52.28
February.....	30.60
March.....	7.20
April.....	164.75
May.....	442.81
June.....	474.10
July.....	154.50
August.....	394.65
September.....	330.58
	<hr/> \$2,051.47

## HARDWARE.

Paid John B. Varick Co., steel..... \$2.28

## PAVING STONE AND GRAVEL.

Paid Charles A. Bailey, 1,200 paving blocks.....	\$60.00
J. H. Coburn, 558 loads paving stone.....	976.50
E. O. Dodge, 8 loads stone...	8.00
John McCarty, 6 loads stone..	9.00
C. H. Robie Co., 69 loads stone.....	120.75
	<hr/> \$1,174.25

## CONCRETE CROSSINGS, AND OTHER WORK.

Paid C. H. Robie Co.....	\$173.64
John T. Underhill & Co.....	1,222.96
	<hr/> \$1,396.60
Total expenditures.....	<hr/> \$6,320.69

## Macadamizing.

Appropriation.....	\$15,000.00	
Transferred from appropriation for macadamizing Central street....	2,170.65	
	<hr/>	\$17,170.65

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division  
No. 2:

March.....	\$39.25	
April.....	261.75	
May.....	1,110.92	
June.....	902.01	
July.....	843.14	
August.....	3,463.79	
September.....	1,748.04	
October.....	2,364.65	
November.....	2,156.62	
	<hr/>	\$12,890.17

Paid labor of men, as per pay-roll, division  
No. 10:

August.....	\$175.25	
September.....	1,093.50	
October.....	141.63	
	<hr/>	\$1,410.38

Paid labor as per commons pay-roll:

August.....	\$10.00
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## FUEL, FREIGHT, WATER.

Paid Boston & Maine R. R., freight	\$13.47
Dunlap & Wason Coal Co., 7½ tons coal.....	41.25

Paid J. A. Fracker, 30 $\frac{3}{4}$ cords wood	\$107.62	
Manchester Water-Works,		
use of water.....	30.00	
People's Gas-Light Co., 29		
chaldrons coke.....	116.00	
	<hr/>	\$308.34

## TOOLS AND HARDWARE.

Paid Manchester Hardware Co., 6		
lanterns.....	\$2.25	
B. H. Piper Co., 27 dozen han-		
dles.....	40.60	
Paid John B. Varick Co.:		
Steel, dynamite.....	21.58	
Wire, fuse, hammers, files, rasps,		
etc.....	850.90	
	<hr/>	\$915.33

## LUMBER, CASTINGS, REPAIRS.

Paid Frank L. Elliott, 900 lbs. for-		
cite.....	\$207.00	
Paid Farrell Foundry & Machine		
Co.:		
1 shaft bearing.....	1.00	
1 special shaft for crusher.....	63.00	
Plates, steel bearings, pitman,		
etc.....	147.30	
Paid Hutchinson Foundry & Ma-		
chine Works:		
Labor and material, crusher....	114.75	
Labor and material, road-roller..	17.65	
48 lbs. plate and labor.....	3.48	
Paid Ingersoll-Sergeant Drill Co.,		
feed nuts.....	6.15	
Thomas A. Lane Co., coup-		
lings, nipples, etc.....	12.46	

Paid Link Belt Eng. Co., 1 28-inch wheel and express.....	\$6.20	
W. C. Oastler, 50 spikes and cotters.....	60.00	
Perkins & Franks, repairing discharging dynamo.....	9.50	
Taylor Iron & Steel Co., tog- gle bearings, plates, etc....	125.28	
Paid Vacuum Oil Co.:		
Cylinder oil.....	62.73	
Engine oil.....	11.38	
	<hr/>	\$847.88

## STONE.

Paid Charles A. Bailey.....	\$290.00	
Brooks & Brock.....	18.50	
J. H. Coburn.....	54.25	
Massachusetts Broken Stone Co.....	171.85	
Palmer & Garmons.....	3.00	
	<hr/>	\$537.60

## SUNDRIES.

Paid A. L. Bixby, repairing build- ings damaged by cutting down trees.....	\$67.43	
C. H. Simpson, use of teams..	32.00	
	<hr/>	\$99.43
Total expenditures.....	\$17,019.13	
Transferred to reserved fund.....	151.52	
	<hr/>	\$17,170.65

## Macadamizing Central Street.

Appropriation.....	<u>\$5,000.00</u>
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## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division  
No. 2:

June ..... \$2,046.53

## STONE.

Paid J. H. Coburn, 104 loads stone..	\$182.00	
Massachusetts Broken Stone		
Co., 644,500 lbs. broken		
stone.....	451.15	
	<hr/>	\$633.15

## SUNDRIES.

Paid Boston & Maine R. R., freight	\$3.00	
People's Gas-Light Co., 3		
chaldrons coke.....	12.00	
C. H. Robie Co., concreting..	89.92	
John B. Varick Co., powder..	44.75	
	<hr/>	\$149.67

Total expenditures.....	\$2,829.35
Transferred to appropriation for macadamiz-	
ing streets.....	2,170.65
	<hr/>
	<u>\$5,000.00</u>

## Grading for Concrete.

Appropriation.....	\$5,000.00
Transferred from reserved fund...	35.82
	<hr/>
	<u>\$5,035.82</u>

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division

No. 2:

April .....	\$194.50
May .....	351.62
June .....	393.86
July .....	551.27
August .....	61.25
September .....	76.42
October .....	54.75

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 \$1,683.67

Paid labor of men, as per pay-roll, division

No. 7:

May .....	\$52.00
July .....	35.00
October .....	25.00

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 \$112.00

Paid labor of men, as per pay-roll, division

No. 10:

April .....	\$16.63
May .....	148.37
June .....	91.52
July .....	55.25
August .....	87.73
September .....	8.50

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 \$408.00

Paid labor of men, as per commons pay-roll:

May .....	\$41.00
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## STONE.

Paid Warren Harvey, cesspool and edge-stones.....

\$1,096.26

## CONCRETE.

Paid C. H. Robie Co., crossings and patching .....	\$1,653.22	
J. T. Underhill & Co., cross- ings .....	41.67	
	<hr/>	\$1,694.89
Total expenditures .....		<u><u>\$5,035.82</u></u>

## Scavenger Service.

Appropriation .....	<u><u>\$16,000.00</u></u>	.
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## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll,  
division No. 2:

January .....	\$672.17	
February .....	522.89	
March .....	663.65	
April .....	1,002.09	
May .....	618.92	
June .....	644.86	
July .....	607.44	
August .....	633.70	
September .....	939.75	
October .....	745.84	
November .....	1,179.82	.
December .....	945.57	
	<hr/>	\$9,176.70

Paid labor of men and teams, as per pay-roll,  
division No. 10:

January .....	\$225.18	
February .....	184.59	
March .....	197.57	
April .....	222.50	
May .....	161.12	
June .....	187.50	
July .....	150.00	
August .....	120.25	
September .....	194.76	
October .....	154.88	
November .....	276.50	
December .....	181.00	
	<hr/>	\$2,255.85

#### CONTRACT.

Paid city farm, scavenger service 11 months  
to December 1, 1896..... \$2,291.67

#### TOOLS AND HARDWARE.

Paid C. H. Hutchinson Foundry & Machine Works, 6 stamps and handles.....	\$1.86	
Manchester Hardware Co., files, rake, globes, soap....	5.52	
John B. Varick Co., bolts, iron, nails, steel, rope, etc..	179.45	
	<hr/>	\$186.83

#### LUMBER, REPAIRS, ETC.

Paid John T. Beach:

Setting 2 boxes.....	\$1.50
1 dump cart.....	100.00



Paid James Briggs & Son, iron, pipe, and labor.....	\$8.62	
J. Choate & Co., paint.....	1.60	
A. Filion, new shafts.....	2.00	
Paid The Head & Dowst Co.:		
Lumber and labor.....	35.67	
Repairs on carts and sleds.....	20.23	
Paid Kimball Carriage Co., repair- ing harnesses, and supplies	31.54	
John F. Kerwin, harness re- pairs.....	15.95	
T. A. Lane Co., pipe and labor	.60	
Ranno Harness Co., repairing harnesses.....	3.30	
George W. Rief, lumber and labor on carts and sleds....	50.77	
	<hr/>	\$271.78

## HAY, GRAIN, AND OTHER FEED.

Paid Adams Brothers.....	\$17.60	
George Eaton.....	54.20	
C. J. Estey.....	19.48	
Freeman & Merrill.....	623.00	
Gage & McDougall.....	1.60	
W. F. Merrill.....	5.20	
	<hr/>	\$721.08

## SUNDRIES.

Paid Clark M. Bailey, waste, brooms.....	\$3.13	
A. N. Clapp, ginger, oatmeal, oil.....	11.78	
E. H. Currier, 3 lbs. sulphur..	.25	
A. L. Dodge, V. S., visits and medicine.....	3.75	

Paid Dunlap & Wason Coal Co.,	
coal.....	\$2.75
Eäger & Co., soap.....	2.90
H. H. Gerward, shoeing horse	1.20
Manchester Water-Works,	
use of water.....	17.00
W. B. Mitchell, medicine for	
horses.....	3.47
N. E. Telephone & Telegraph	
Co., use of telephone.....	18.00
People's Gas-Light Co., gas..	22.96
	<hr/>
	\$87.19
	<hr/>
Total expenditures.....	\$14,991.10
Transferred to reserved fund.....	1,008.90
	<hr/>
	\$16,000.00
	<hr/> <hr/>

### Street Sweeping.

Appropriation.....	\$3,000.00
	<hr/> <hr/>

### EXPENDITURES.

#### LABOR.

Paid labor of men, as per pay-roll, division

No. 2:

April.....	\$240.68
May.....	278.80
June.....	259.50
July.....	252.78
August.....	147.83
September.....	300.07
October.....	187.91
November.....	230.98
	<hr/>
	\$1,898.55

Paid labor of men, as per pay-roll, division  
No. 10:

January.....	\$8.06	
April.....	150.10	
May.....	49.49	
June.....	37.13	
July.....	43.37	
August.....	60.75	
September.....	87.00	
October.....	59.42	
November.....	72.24	
	<hr/>	\$567.56

## HARDWARE.

Paid Manchester Hardware Co., 12 hoes.....	\$5.00	
John B. Varick Co., iron, nails, hoes, etc.....	39.88	
	<hr/>	\$44.88

## REPAIRS AND SUPPLIES.

Paid Edson Manufacturing Co., 1 two-horse sweeper.....	\$373.50	
S. A. Felton & Son Co., refill- ing sweeper.....	32.00	
C. H. Hutchinson Foundry & Machine Works, castings, gears, labor.....	7.19	
Paid Hickory Broom Fibre Co.: 12 brooms with scrapers.....	8.50	
Filling two machine brooms with hickory fibre.....	35.00	
	<hr/>	\$456.19

## SUNDRIES.

Paid Boston & Maine R. R., freight on brooms	\$1.26
Total expenditures.....	\$2,968.44
Transferred to reserved fund.....	31.56
	<u>\$3,000.00</u>

## Bridges.

Appropriation.....	\$4,000.00
Transferred from reserved fund...	336.88
	<u>\$4,336.88</u>

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division No. 2:	
January.....	\$13.41
February.....	5.29
March.....	12.60
April.....	375.24
May.....	102.34
December.....	26.33
	<u>\$535.21</u>
Paid labor of men, as per pay-roll, division No. 10:	
March.....	\$32.12
April.....	2.00
	<u>\$34.12</u>

## LUMBER, STONE, HARDWARE.

Paid A. N. Clapp, nails, rope.....	\$2.84
Gilman Clough, lumber.....	165.44

## Paid The Head &amp; Dowst Co.:

Lumber .....	\$780.48	
Building foot-bridge, Granite street.....	2,119.70	
Paid Manchester Hardware Co., spikes and nails.....	5.08	
John B. Varick Co., padlocks, hinges, nails, spikes, etc...	88.00	
A. C. Wallace, lumber, posts.	24.68	
	<hr/>	\$3,186.22

## REPAIRS.

Paid C. W. & G. A. Farmer, oak plank.....	\$104.81	
Paid The Head & Dowst Co.: Repairs on Amoskeag bridge...	254.90	
Repairs on east end Granite bridge.....	167.00	
Paid Thomas A. Lane Co., repairing rail, Granite bridge.....	8.07	
	<hr/>	\$534.78

## SUNDRIES.

Paid Groton Bridge Co., labor on McGregor bridge.....	\$12.13	
Manchester Electric Co., electric lights.....	34.42	
	<hr/>	\$46.55
Total expenditures.....	\$4,336.88	

## New Bridge, Granite Street.

Appropriation, bonds issued....	\$130,000.00	
Received from Manchester Electric R. R.....	1,228.00	
Transferred from reserved fund.	7,527.73	
	<hr/>	\$138,755.73

## EXPENDITURES.

## LABOR AND STONE WORK.

Paid Charles A. Bailey, stone.....	\$10,233.97	
Dunlap & Wason Coal Co., 24		
tons, 1,440 lbs. coal.....	104.73	
The Head & Dowst Co., 30		
casks cement.....	75.00	
Paid L. F. Kittredge & Son:		
Labor.....	27,667.78	
Use of derricks, engines, pump..	2,826.50	
Teaming.....	133.00	
Cash paid Ward Bros., for stone.	60.13	
Paid Moore & Preston, 24 tons, 300		
lbs. coal.....	104.45	
H. W. Parker, cement.....	2,966.01	
	<hr/>	\$44,171.57

## IRONWORK.

Paid Groton Bridge Co.....	\$92,750.00
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## SUNDRIES.

Paid Allen N. Clapp, kerosene.....	\$5.50
The John B. Clarke Co., ad-	
vertising proposals.....	13.88
The Head & Dowst Co., lum-	
ber.....	905.07
Paid C. H. Manning:	
Services as consulting engineer..	250.00
Expenses to Groton, N. Y.....	34.00
Paid C. H. Robie Co., 548 loads	
sand.....	411.00
Union Publishing Co., adver-	
tising proposals.....	12.30

Paid John B. Varick Co., hardware	\$166.41	
A. C. Wallace, lumber.....	5.45	
Wingate & Gould, 6 pairs rubber boots.....	27.55	
C. H. Wood, painting signs...	3.00	
	<hr/>	\$1,834.16
Total expenditures.....	\$138,755.73	<hr/> <hr/>

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City Teams.

Appropriation.....	\$6,000.00	
Transferred from reserved fund...	285.70	
	<hr/>	\$6,285.70

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll, division No. 2:		
January.....	\$304.91	
February.....	193.48	
March.....	161.01	
April.....	201.24	
May.....	149.50	
	<hr/>	\$1,010.14
Paid labor of men and teams, as per pay-roll, division No. 10:		
January.....	\$32.85	
February.....	26.90	
March.....	32.50	
April.....	40.63	
	<hr/>	\$132.88

## GRAIN, HAY, STRAW.

Paid Adams Brothers.....	\$67.18	
John Austin.....	13.85	
G. W. Butterfield.....	109.19	
William Clarke.....	35.81	
Freeman & Merrill.....	265.28	
Gage & McDougall.....	6.70	
Frank Hobbs.....	6.10	
Isaac Huse.....	178.50	
Clarence R. Merrill.....	451.63	
W. F. Merrill.....	18.12	
Jonathan McAllister.....	92.50	
J. M. & D. A. Parker.....	26.41	
A. J. Peasley.....	44.50	
Partridge Brothers.....	419.75	
W. H. Stearns.....	64.00	
C. D. Welch.....	283.15	
	<hr/>	\$2,082.97

## HARNESSES AND REPAIRS.

Paid John F. Kerwin, repairs and supplies.....	\$124.62	
Kimball Carriage Co., repairs and supplies.....	130.07	
Paid The Rammo Harness Co.:		
1 harness.....	42.00	
Repairs and supplies.....	40.63	
Paid Ivory S. York, supplies.....	8.25	
	<hr/>	\$345.57

## NEW CARRIAGES AND CARRIAGE REPAIRS.

Paid John T. Beach, repairs.....	\$8.88
Kimball Carriage Co., repair- ing sleigh.....	19.00



Paid J. B. McCrillis & Son, painting wagon, etc.....	\$12.15	
James Richards, 1 two-horse dump-cart.....	75.00	
	—	\$115.03

## HARDWARE.

Paid Allen N. Clapp, nails, hinges, etc.....	\$2.10	
Manchester Hardware Co., chain, locks, pulleys, paint, brackets.....	4.37	
Paid John B. Varick Co.:		
Screws, bolts, hinges.....	22.54	
Paint, varnish, etc.....	84.64	
Cement, iron, steel, nails, bits, soap... ..	54.91	
Hose, brooms, sponges, etc.....	81.09	
	—	\$249.65

## LIVE STOCK, AND VETERINARY EXPENSES.

Paid A. F. Abbott, V. S., visits and medicine.....	\$15.25	
Charles M. Bailey, V. S., visits and medicine.....	25.50	
F. L. Bodwell, dressing horses' teeth.....	36.00	
William Boynton, 1 horse....	150.00	
Cavanaugh Bros., 2 horses...	237.50	
E. H. Currier, medicine.....	10.10	
A. L. Dodge, V. S., visits and medicine.....	14.75	
Eager & Co., salt.....	2.00	
W. H. Gibson, hoof ointment.	2.00	
J. L. Golden, V. S., medicine.	17.75	

Paid W. B. Mitchell, liniment,		
horse powders .....	\$9.52	
C. H. Simpson, 1 horse.....	62.50	
Paid Tebbetts & Soule:		
Syringes .....	1.70	
Medicine.....	.25	
Paid Welch and Hall, 3 horses.....	375.00	
	<hr/>	\$959.82

## WATER, GAS, TELEPHONE, FUEL.

Paid L. B. Bodwell & Co., 10 tons		
coal.....	\$65.00	
Manchester Water Works,		
use of water.....	51.00	
N. E. Telephone & Telegraph		
Co., use of telephones.....	54.00	
People's Gas-Light Co., gas at		
stables.....	148.40	
J. F. Wyman, 3 tons coal....	20.25	
	<hr/>	\$338.65

## LUMBER, REPAIRS, ETC.

Paid J. J. Abbott, glass, putty,		
painting blinds, etc.....	\$22.20	
F. W. Blood Roofing Co.,		
roofing cement.....	1.75	
John Driscoll, pipe, collar,		
dampers, zinc, etc.....	8.78	
Paid The Head & Dowst Co.:		
Repairs on storage shed.....	661.00	
Lumber and labor.....	171.51	
Paid C. H. Hutchinson Foundry &		
Machine Works, castings		
and drilling.....	17.72	

Paid Thomas A. Lane Co., material and labor on gas and soil pipes .....	\$44.29	
Maynard & Hevey, plumbing material and labor.....	4.11	
Pike & Heald Co., 1 sink.....	2.75	
G. W. Rief, lumber and labor.	21.62	
L. & W. T. Seiberlich, glass, paint, nails, etc.....	3.48	
A. C. Wallace, lumber.....	10.39	
	<hr/>	\$969.60

## HORSE HIRE.

Paid C. B. Danforth.....	\$7.00	
E. T. James.....	19.50	
C. H. Simpson.....	6.00	
	<hr/>	\$32.50

## MISCELLANEOUS.

Paid Boston & Maine R. R., freight	\$5.50	
James Briggs & Son, dippers, iron, copper cover, sprink- lers, etc.....	5.05	
W. H. Carpenter, removing dead horse.....	3.50	
A. N. Clapp, kerosene.....	14.46	
Eager & Co., soap, matches..	1.08	
E. D. Rogers, axle grease....	5.50	
The Sulpho-Napthol Co., sul- pho-napthol.....	8.75	
White Mountain Oil Co., axle oil.....	1.85	
R. M. West, 1 ladder.....	3.20	
	<hr/>	\$48.89
Total expenditures.....		<hr/> <hr/> \$6,285.70

## Repairs of Sewers.

Appropriation.....	\$5,000.00	
Transferred from reserved fund...	421.63	
	<hr/>	\$5,421.63

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division  
No. 2:

January.....	\$230.04	
February.....	68.67	
March.....	147.76	
April.....	633.57	
May.....	651.03	
June.....	363.53	
July.....	355.12	
August.....	264.18	
September.....	203.22	
October.....	287.83	
December.....	117.50	
	<hr/>	\$3,322.45

Paid labor of men, as per pay-roll, division  
No. 10:

January.....	\$70.39	
February.....	58.34	
March.....	237.12	
April.....	281.43	
May.....	220.25	
June.....	33.51	
July.....	68.37	
August.....	108.24	
September.....	60.75	
October.....	176.48	
November.....	200.12	
December.....	63.62	
	<hr/>	\$1,578.62

## HARDWARE.

Paid Manchester Hardware Co., 6 cesspool dipper handles..	\$3.00	
John B. Varick Co., oakum, pails, etc.....	25.70	
	<hr/>	\$28.70

## MATERIAL, LABOR, ETC.

Paid Boston Woven Hose & Rubber Co., hose.....	\$174.00	
Warren Harvey, stone.....	227.63	
The Head & Dowst Co., boards and posts.....	1.52	
Paid C. H. Hutchinson Foundry & Machine Works:		
Labor on couplings.....	15.50	
Traps, grates, etc.....	21.38	
Paid Kimball & Hobbs, 2 oil suits..	4.50	
Thomas A. Lane Co., pipe, bends, etc.....	3.86	
Lessard & Hevey, cement, labor.....	2.00	
Palmer & Garmons, labor on stone.....	4.06	
Pike & Heald Co., 3 scoops...	2.61	
	<hr/>	\$457.06

## SUNDRIES.

Paid Boston & Maine R. R., freight	\$16.80	
C. H. Simpson, use of teams..	18.00	
	<hr/>	\$34.80
Total expenditures.....		<hr/> <hr/> \$5,421.63

## New Sewers.

Balance from last year unexpended	\$437.83	
Appropriation.....	40,000.00	
Transferred from appropriation for		
Silver-street sewer.....	391.79	
Transferred from reserved fund...	186.06	
	<hr/>	\$41,015.68
		<hr/>

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division

No. 2:

January.....	\$800.64	
February.....	145.65	
March.....	46.58	
April.....	642.46	
May.....	1,198.63	
June.....	1,644.11	
July.....	1,860.41	
August.....	1,798.59	
September.....	1,835.08	
October.....	827.36	
November.....	1,018.79	
December.....	134.42	
	<hr/>	\$11,952.72

Paid labor of men, as per pay-roll, division

No. 7:

April.....	\$306.11	
May.....	1,563.75	
June.....	1,679.49	
July.....	869.12	
August.....	405.78	
September.....	382.87	
October.....	210.00	
November.....	489.50	
	<hr/>	\$5,906.62

Paid labor of men, as per pay-roll, division

No. 10:

April .....	\$398.62	
May .....	1,037.49	
June .....	1,491.00	
July .....	864.71	
August .....	921.81	
September .....	1,095.36	
October .....	629.14	
November .....	319.90	
	<hr/>	\$6,758.03

#### HARDWARE.

Paid A. N. Clapp, nails and spikes.	\$20.46	
Paid Manchester Hardware Co.:		
Globes and lanterns .....	10.00	
Rules, tapes, hose, etc. ....	27.38	
Paid B. H. Piper Co., 48 handles...	5.78	
Paid John B. Varick Co.:		
Screws, bolts, nails .....	20.32	
Steel and iron .....	199.99	
Wedges, hammers, chain, rope..	72.80	
Powder, fuse, etc. ....	504.25	
Shovels, picks, handles, etc .....	366.09	
	<hr/>	\$1,227.07

#### SEWER PIPE.

Paid Amoskeag Manufacturing Co.	\$393.94	
George D. Goodrich .....	113.53	
Thomas A. Lane Co. ....	5,492.38	
Manchester Heating & Light-		
Co. ....	2,034.04	
Pike & Heald Co. ....	12.69	
	<hr/>	\$8,046.58

## MATERIAL, LABOR, ETC.

Paid Clark M. Bailey, 48 lanterns.	\$26.00
L. B. Bodwell & Co., 53 tons, 990 lbs. coal.....	233.46
Boston & Maine R. R., labor of section men on account of sewer at East Manches- ter.....	24.85
Boston Woven Hose & Rub- ber Co., 750 feet hose.....	322.50
James Briggs & Son, dippers, sprinkler.....	1.60
Paid S. A. Blood:	
Pine wood, sawed.....	8.75
Oak logs.....	1.50
Paid Carson Trench Machine Co., 2 wheels.....	10.10
A. N. Clapp, pails, oil, etc....	38.26
Dodge & Straw, 1 pair rubber boots.....	3.40
Dunlap & Wason Coal Co., 25 tons, 1,080 lbs. coal.....	115.29
Edson Manufacturing Co., pump heads.....	14.00
The Fairbanks Co., 1 cement tester.....	99.00
Charles F. Gee, castings for derrick.....	7.90
A. & W. S. Heath, 1 pair boots.....	3.75
Paid C. H. Hutchinson Foundry & Machine Works:	
Grates, traps, manholes, etc....	1,263.52
Repairing drills.....	.40



Paid The Ingersoll-Sergeant Drill  
Co.:

Valve buffers, pawl springs, piston rings, etc.....	\$145.81
1 drill, chuck, etc., complete.....	\$300.00
Less 2 drills returned...	80.00
	<hr/>
	220.00

Hose and express..... 17.75

Paid Kimball & Hobbs, rubber mit-  
tens, oil suits, belting  
leather.....

15.29

A. H. Kittredge, 500 lbs. for-  
cite..... 125.00

Thomas A. Lane Co., hose  
bands, unions, valves, etc.. 47.44

Lightbody & Burbank, 10  
pairs boots..... 27.50

Clemens Langer, repairing  
water-pipe..... 8.80

Mead, Mason & Co., sail cloth,  
and freight on same..... 30.45

Moore & Preston, 25 tons,  
1,780 lbs. coal..... 112.13

Charles H. Parker, hoisting  
engine with boiler, etc..... 800.00

Luther Proctor, blasting  
wood..... 31.50

Paid James Robertson:

400 feet rope..... 32.00

1 derrick, hose, etc..... 541.00

Paid G. H. Sampson, battery and  
wire..... 25.70

Paid Swan & Finch Co.:

Cylinder oil..... 25.25

Engine oil..... 18.20

Paid Wingate & Gould, 38 pairs rubber boots .....	\$92.45	
J. H. Wiggin & Co., 1 hogs- head.....	1.00	
	<hr/>	\$4,491.55

## CEMENT, BRICK, LUMBER.

Paid The Head & Dowst Co.:		
Brick.....	\$14.00	
Lumber.....	85.92	
Paid W. F. Head & Son, 118 M brick.....	610.79	
John Kenney, 12,400 feet spruce plank.....	142.60	
Clarence R. Merrill, cement..	2.75	
Henry W. Parker, 704 bbls. cement.....	732.16	
A. C. Wallace, lumber.....	729.62	
	<hr/>	\$2,317.84

## FREIGHT.

Paid Boston & Maine R. R., freight on brick, hose, blocks, etc .....	\$142.78
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## SUNDRIES.

Paid L. M. Aldrich, filing saws....	\$3.55
Paid The John B. Clarke Co.:	
Advertising proposals.....	16.80
Printing pay-rolls and bills.....	18.00
Paid Peter Duval, filing saws.....	7.80
John Ferguson, M. D., attend- ance on J. J. Stanton.....	40.00
The Head & Dowst Co., team- ing engine and derrick.....	3.00

Paid Laommi Searles, use of der- rick .....	\$10.50	
Julia F. Stearns, cash paid for express .....	1.00	
S. B. Stearns, policy No. 25,489, Hartford Steam Boiler Co., 3 years.....	50.00	
Union Publishing Co., adver- tising bids .....	11.34	
John T. Underhill, concreting	10.50	
	<hr/>	\$172.49
Total expenditures.....	\$41,015.68	<hr/> <hr/>

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### Silver Street Sewer.

Appropriation.....	\$15,000.00	
Transferred from appropriation for Christian brook sewer.....	1,515.92	
	<hr/>	\$16,515.92

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division No. 2:		
May .....	\$173.26	
June.....	4,472.66	
July .....	3,951.66	
August .....	2,856.81	
	<hr/>	\$11,454.39

## HARDWARE.

Paid John B. Varick Co.....	\$38.72
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## CEMENT, BRICK, LUMBER.

Paid The Head & Dowst Co., lum- ber.....	\$100.25	
W. F. Head & Son, 491,470 brick.....	2,531.07	
Henry W. Parker, 901 casks cement.....	945.59	
A. C. Wallace, lumber.....	406.61	
	<hr/>	\$3,983.52

## MATERIAL, ETC.

Paid The Edson Manufacturing Co., 2 pumps, suction hose, etc.....	\$163.80	
C. H. Hutchinson Foundry & Machine Works, material and labor on pumps, etc...	25.23	
Thomas A. Lane Co., pipe, washers, etc.....	28.58	
	<hr/>	\$217.61

## SUNDRIES.

Paid Boston & Maine R. R.:		
Freight.....	\$397.60	
Cost of labor taking up track sticks on account of sewer....	27.20	
Paid Amory Manufacturing Co., sacking.....	5.09	
	<hr/>	\$429.89
Total expenditures.....		<hr/> \$16,124.13
Transferred to appropriations for new sewers.		391.79
		<hr/> <hr/> \$16,515.92

## Christian Brook Sewer.

Balance from last year unexpended	\$1,703.00	
Appropriation.....	5,000.00	
	<hr/>	\$6,703.00
		<hr/>

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division  
No. 2:

February.....	\$29.57	
April.....	230.12	
May.....	2,384.46	
June.....	228.17	
	<hr/>	\$2,872.32

## HARDWARE.

Paid John B. Varick Co..... \$10.23

## CEMENT, BRICK, LUMBER.

Paid Adams Brothers, 2 bbls. cement.....	\$5.60	
W. F. Head & Son, 252 M brick.....	1,297.80	
The Head & Dowst Co., lumber.....	3.10	
Clarence R. Merrill, cement..	3.50	
Henry W. Parker, 500 casks cement.....	520.00	
A. C. Wallace, lumber.....	188.90	
	<hr/>	\$2,018.90

## FREIGHT.

Paid Boston & Maine R. R.....	\$209.04
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## SUNDRIES.

Paid James Briggs & Son, dippers.....	\$0.75	
C. H. Hutchinson Foundry & Machine Works, manholes, grates, traps, etc.....	70.51	
Thomas A. Lane Co., Akron pipe.....	5.33	
	<hr/>	\$76.59
Total expenditures.....		\$5,187.08
Transferred to appropriation for Silver-street sewer.....		1,515.92
		<hr/>
		<u>\$6,703.00</u>

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River Road, Clarke, and Elm Street Sewer.

Appropriation.....	<u>\$15,000.00</u>
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## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll, division  
No. 2:

August.....	\$1,110.40	
September.....	2,691.21	
October.....	1,093.80	
November.....	1,567.79	
	<hr/>	\$6,463.20

## HARDWARE.

Paid F. L. Elliott, forcite.....	\$121.50	
Manchester Hardware Co., hardware.....	5.06	
John B. Varick Co., dynam- ite, fuse, etc.....	432.12	
	<hr/>	\$558.68

## CEMENT, BRICK, LUMBER.

Paid J. Hodge, lumber.....	\$10.93	
W. F. Head & Son, 196 M brick.....	1,009.40	
The Head & Dowst Co., lum- ber.....	31.72	
Henry W. Parker, 501 casks cement.....	522.75	
	<hr/>	\$1,574.80

## SUNDRIES.

Paid L. B. Bodwell & Co., coal.....	\$221.02	
Boston & Maine R. R., freight	161.80	
Dunlap & Wason Coal Co., 1 ton coal.....	2.75	
C. H. Hutchinson Foundry & Machine Works, labor on steam drill.....	5.20	
Ingersoll-Sergeant Drill Co., feed nuts, pawl springs, hose, etc.....	134.64	
Kimball & Hobbs, lacing, and oil suit.....	3.50	
Thomas A. Lane Co., hose, hose bands, etc.....	10.29	
Moore & Preston, coal.....	114.35	

Paid M. F. Whiton & Co., 725 feet steel hoist .....	\$52.20	
		<u>\$705.75</u>
Total expenditures.....		\$9,302.43
Transferred to new account.....		<u>5,697.57</u>
		<u><u>\$15,000.00</u></u>

## Lighting Streets.

Appropriation.....	<u>\$52,000.00</u>
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## EXPENDITURES.

## ELECTRIC LIGHTS.

## Paid Manchester Electric Light Co.:

	Charges.	Discounts.
January.....	\$3,944.12	\$23.31
February.....	4,063.33	53.86
March.....	4,063.33	29.91
April.....	4,071.52	11.76
May.....	4,072.92	39.28
June.....	4,081.74	9.64
	<u>\$24,296.96</u>	<u>\$167.76</u>
Less discount.....	167.76	
		<u>\$24,129.20</u>

## Paid Manchester Electric Co.:

	Charges.	Discounts.
July.....	\$4,063.33	\$4.61
August.....	4,063.65	3.98
September.....	4,063.33	6.18
October.....	4,063.33	10.06
November.....	4,132.00	21.42
December.....	4,163.44	34.96
	<u>\$24,549.08</u>	<u>\$81.21</u>
Less discount.....	81.21	
		<u>\$24,467.87</u>



## GAS.

## Paid People's Gas-Light Co.:

January .....	\$55.16	
February .....	56.84	
March .....	48.44	
April .....	46.06	
May .....	41.16	
June .....	37.24	
July .....	32.90	
August .....	34.02	
September .....	37.38	
October .....	41.02	
November .....	50.26	
December .....	52.50	
	<hr/>	\$532.98

## CARE OF GAS AND OIL LAMPS.

Paid People's Gas-Light Co., for  
lighting, extinguishing, and  
care of gas and oil street  
lights:

January .....	\$133.40	
February .....	128.15	
March .....	60.00	
	<hr/>	\$321.55

Paid Patrick Dobbins, lighting lamps at Goffe's Falls .....	\$165.67
Frank W. Elliott, lighting street lamp to January 1, 1897 .....	15.41
C. D. Francis, lighting street lamps .....	225.04
Joseph Goodwin, lighting street lamps .....	1,104.00

Paid Mrs. Mary E. Reed, lighting lamp at Massabesic to Jan- uary 1, 1897.....	\$15.00	
Noah B. Reed, furnishing oil and supplies for light from September 1, 1894, to Sep- tember 1, 1896.....	12.00	
	<hr/>	\$1,537.12

## SUNDRIES.

Paid Clark M. Bailey:	
30 dozen chimneys.....	\$42.00
Founts, burners, wicks, etc.....	15.20
Paid Boston & Maine R. R., freight on naphtha.....	2.92
Paid Allen N. Clapp:	
Kerosene oil.....	76.96
Gasoline.....	125.74
Matches.....	.70
Paid Thomas A. Lane Co., plugs, caps, etc.....	.37
Paid Clemens Langer:	
Labor putting in operation 15 gasoline lamps .....	5.50
Fixing blow lamp .....	.50
Paid Byron E. Moore, drawing, set- ting, and repairing lamp- posts .....	9.50
John F. Moore, erecting building for storing gaso- line .....	75.00
Paid People's Gas-Light Co.:	
Glass.....	8.50
Kerosene.....	16.71
Whiskey.....	3.00
Sperm oil, etc.....	1.65

Paid C. C. Perry, use of hack and team.....	\$7.50	
Paid Pike & Heald Co.:		
Labor on gas-pipe.....	.25	
6 burners, 1 thumb screw.....	6.25	
Paid O. G. Reed, use of hack and team .....	7.00	
John B. Varick Co., glass, matches, burners.....	8.13	
Whitten & Fifield, use of hacks and teams.....	24.50	
		<u>\$437.88</u>
Total expenditures.....	\$51,426.60	
Transferred to reserved fund.....	573.40	
		<u><u>\$52,000.00</u></u>

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### Engineer's Department.

Appropriation .....	\$4,500.00	
Transferred from reserved fund...	1,395.25	
		<u><u>\$5,895.25</u></u>

## EXPENDITURES.

## LABOR.

Paid W. H. Bennett, engineer.....	\$1,200.00
Harrie M. Young, first assistant .....	847.00
George W. Wales, second assistant.....	861.87
Harry J. Briggs, third assistant .....	726.25

Paid Alfred Dodge, assistant.....	\$386.75	
G. M. Currier, assistant.....	168.00	
L. B. Webster, assistant.....	522.50	
Herbert L. Watson, assistant	157.88	
Earl Raino, labor .....	36.00	
Ella M. Barker, clerk.....	81.25	
John P. Young, labor.....	9.00	
	<hr/>	\$4,996.50

## TEAM EXPENSES.

Paid W. H. Bennett, car fares.....	\$0.30	
P. Donovan, Jr., use of team..	10.00	
A. Filion, repairing sleigh...	6.00	
Paid Kimball Carriage Co.:		
Repairing wagon.....	25.00	
1 whip.....	1.25	
Paid Manchester Street Railway:		
22 books car tickets.....	55.00	
Use of horse.....	3.00	
Paid T. W. Robinson:		
1 express wagon.....	\$100.00	
Less 1 second-hand		
wagon .....	25.00	
	<hr/>	75.00
Paid G. W. Wales, cash paid use of		
teams.....	2.00	
Whitten & Fifield, use of		
teams.....	74.00	
Harrie M. Young, car fares..	.35	
	<hr/>	\$251.90

## TELEPHONE.

Paid N. E. Telephone & Telegraph Co., use of	
telephone.....	\$36.80

## SUPPLIES AND OFFICE FIXTURES.

Paid W. H. Bennett:

Cash paid for postage.....	\$2.00
Express.....	1.10
Deeds, car fare to Nashua.....	6.10

Paid Harry J. Briggs, cash paid for  
express.....

.25

W. L. Blenus, repairing tapes

13.55

Paid The John B. Clarke Co.:

Printing 150 reports.....	68.57
Binding 1 book.....	.50
2 canvas covers.....	1.50

Paid E. R. Coburn Co.:

Water colors, India ink.....	5.27
Paper, erasers, hooks, pencils, 12 flags.....	12.10

Paid The Carter's Ink Co., 1 ribbon

1.00

Paid Daniels &amp; Downs:

Stenographer's services.....	23.81
Use of typewriter.....	1.50
Carbon paper, etc.....	.75

Paid J. G. Ellinwood, photographs

4.00

Frost &amp; Adams Co., supplies.

130.00

W. P. Farmer, 2 pairs rubber  
boots.....

7.50

S. C. Forsaith Machine Co.,

6,700 stakes, per contract..

62.50

W. P. Goodman, diaries, jour-  
nal, pencils.....

6.60

C. A. Hoitt &amp; Co., 1 duster...

1.25

The Head & Dowst Co., lum-  
ber and labor.....

17.88

J. Hodge, wood.....

.30

Kimball & Hobbs, 1 lb. rub-  
ber bands.....

2.40

## Paid The Nate Kellogg Co.:

Letter heads.....	\$7.00
1,500 blanks.....	4.00

## Paid Dana W. King, examining

copies.....	5.50
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The Thomas A. Lane Co., 6	
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cuspidors, etc.....	3.60
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H. F. W. Little, lumber, nails,	
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and labor.....	3.70
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T. D. Luce, copying extract	
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from road report.....	.75
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Lyons Platinum Pen Co., pens	5.00
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A. E. Martell & Co., letter	
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books .....	10.00
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D. L. Miller & Co., 1 "Atlas of	
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Manchester" .....	25.00
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J. B. McCrillis & Son, change	
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of typewriter and use of	
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one three months.....	65.00
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John Robbie Co., flannel.....	1.00
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E. G. Soltmann, ink, brushes	
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blue print.....	20.63
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## Paid Temple &amp; Farrington Co.:

Books, paste .....	6.00
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Binding and repairing books....	5.75
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## Paid John B. Varick Co., hardware

C. H. Wood, painting rods...	3.00
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R. M. West, 1 ladder.....	1.60
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G. W. Wales, drawing paper.	.35
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E. A. Watson, photographs..	7.50
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Harrie M. Young, paper.....	.09
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\$556.63

## SUNDRIES.

## Paid F. W. Elliott, 8 dinners and

horse fed.....	\$7.00
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Paid R. W. Shepard, keys.....	\$0.50	
Union Manufacturing Co., 1,000 numbers.....	45.00	
J. W. Wilson, freight and truckage.....	.92	
	<hr/>	\$53.42
Total expenditures.....		<u><u>\$5,895.25</u></u>

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Health Department.

Appropriation.....	<u><u>\$4,200.00</u></u>
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## EXPENDITURES.

## LABOR.

Paid C. W. Downing M. D., salary as member of board of health for year ending February 1, 1896....	\$200.00	
Paid Cornelius F. Starr, M. D.: Salary as member of board of health for year ending Febru- ary 1, 1896.....	200.00	
For 1 $\frac{1}{4}$ months.....	20.83	
Paid W. K. Robbins, salary as member of board of health for year ending February 1, 1896.....	200.00	
Richard J. Barry, 318 days' services as sanitary in- specter.....	795.00	
Herbert S. Clough, 333 $\frac{1}{2}$ days' services as sanitary in- specter.....	1,000.50	
John F. Looney, 338 days' ser- vices as sanitary inspector.	760.51	
Ethel A. Marston, clerk.....	184.00	
	<hr/>	\$3,360.84

## PRINTING AND STATIONERY.

## Paid A. S. Campbell &amp; Co.:

Printing note heads, circulars, etc.....	\$25.30
25,000 plumbing notices.....	35.00

Paid The John B. Clarke Co.,  
printing:

Bulletins.....	40.20
Health laws.....	58.30
300 reports.....	20.10
Note circulars.....	1.60
Binding 25 books.....	3.75

Paid E. R. Coburn Co., blank books,  
ink.....

4.71

F. H. Challis, printing circu-  
lars, cards, returns.....

10.75

The Nate Kellogg Co., blank  
books.....

11.25

Temple & Farrington Co., 1  
blank book.....

8.85

J. Arthur Williams, 1,000 cer-  
tificates.....

3.00

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\$222.81

## TEAMS.

## Paid R. J. Barry, car fares.....

\$12.65

## Paid Herbert S. Clough:

Car fares ..... 34.90

Teams ..... 1.50

## Paid F. X. Chenette, use of hacks..

11.50

• W. J. Freeman, boarding  
team.....

102.74

## J. F. Looney, car fares.....

26.40

## Plummer &amp; Brown, team....

3.00



Paid George E. Wheeler & Son, hack.....	\$2.00	
Whitten & Fifield, use of teams.....	42.00	
	<hr/>	\$236.69

## PEST-HOUSE.

Paid C. A. Hoitt & Co., 1 spring....	\$3.50	
Pike & Heald Co., centers to range.....	.60	
Judith Sherer, board, sundry persons.....	32.75	
	<hr/>	\$36.85

## OFFICE EXPENSES.

Paid H. S. Clough:		
Envelopes, mucilage.....	\$11.30	
Postage.....	2.66	
Paid G. B. Cressey, labor and ma- terial on desk.....	6.26	
John F. Looney, books, tacks.	.99	
Moore & Preston, wood.....	2.00	
N. E. Telephone & Telegraph Co., use of telephone.....	36.50	
Paid People's Gas-Light Co.:		
Gas.....	2.28	
Mantels and chimneys.....	1.20	
Paid Pike & Heald Co., iron and labor on testing machine...	3.02	
Weston & Hill Co., 12 towels.	1.10	
	<hr/>	\$67.31

## SUNDRIES.

Paid R. J. Barry:		
Repairs on boat.....	\$5.00	
Card rack.....	.25	

Paid Burnham, Brown & Warren, legal services.....	\$14.00
Paid H. S. Clough:	
Disinfectants.....	11.10
Express and telegrams.....	5.25
Expense for McArdle family....	.93
Demijohns, keys, vaccination points.....	4.60
Summoning witnesses, dinners at lake.....	3.74
Use of steamboat.....	5.00
Expenses to Concord.....	6.22
Paid T. Chilcott, burying horse....	2.00
Harold C. Ernst, M. D., diph- theria examination.....	29.00
G. C. Hoitt, M. D., services...	3.00
O. D. Knox & Co., groceries delivered William Trasil- lian.....	17.37
Thomas A. Lane Co., material and labor on furnace.....	9.14
Lehn & Fink, antitoxin.....	35.00
Paid J. F. Looney:	
Disinfectants.....	6.75
Wood, tin pans.....	.69
Paid Ethel A. Marston, express and mucilage.....	2.70
The H. K. Mulford Co., anti- toxin.....	12.15
D. F. O'Neil, groceries, Bro- deur family.....	2.95
Dunlap & Wason Coal Co., coal, Brodeur family.....	1.85
Felix Provencher, burial of child.....	7.00

Paid Snelling & Woods, sulphur, alcohol.....	\$10.80	
The Sulpho-Naphthol Co., 10 gallons sulpho-naphthol...	17.50	
F. H. Thurston, antitoxin....	17.00	
John B. Varick Co., sulphur, alcohol, lantern, pair oars..	7.90	
	<hr/>	\$238.89
Total expenditures.....		\$4,163.39
Transferred to reserved fund.....		36.61
		<hr/>
		\$4,200.00
		<hr/>

## Repairs of Schoolhouses.

Appropriation.....	\$6,000.00	
Transferred from reserved fund...	578.38	
	<hr/>	\$6,578.38
		<hr/>

## EXPENDITURES.

## MASONWORK.

Paid B. W. Robinson.....	\$165.99	
Shirley & Stuart.....	707.23	
	<hr/>	\$873.22

## PAINTING AND GLAZING.

Paid J. J. Abbott, painting and glazing.....	\$405.75
J. S. Avery, setting glass....	5.60
J. Choate & Co., setting glass.	.50
Joel Daniels & Co., setting glass.....	.75
C. F. Jack, glass and setting same.....	1.18

Paid H. Leibing, paint.....	\$1.95	
E. Paul, glass and setting same.....	1.80	
John A. Sargent, painting and glazing .....	613.64	
Inez M. Warren, 1 light glass.	.25	
	<hr/>	\$1,031.42

## CONCRETING.

Paid C. H. Robie Co.....	\$505.09
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## WOODWORK.

Paid Alonzo Day, 33 windows.....	\$79.40	
G. H. Dudley, lumber, hard- ware, labor.....	1,329.45	
Paid The Head & Dowst Co.:		
9,100 laths .....	20.47	
Lumber and labor.....	91.78	
Paid J. Hodge, lumber, windows, doors, etc. ....	102.54	
	<hr/>	\$1,623.64

## PLUMBING, IRONWORK, REPAIRS.

Paid Amoskeag Manufacturing Co., repairing boilers .....	\$146.66	
S. C. Austin & Co., lightning rods .....	51.90	
D. J. Adams, repairing locks, fitting keys.....	9.35	
F. W. Blood Roofing Co., re- pairing roofs.....	336.47	
E. M. Bryant & Co., repairing bells.....	12.54	
Burlington Venetian Blind Co., Venetian blinds.....	163.00	

Paid Cressey & Colby, repairing shovel and poker.....	\$1.15	
W. M. Darrah & Co., material and labor on roofs.....	23.74	
Peter Harris, repairing door- knobs.....	.35	
C. H. Hutchinson Foundry & Machine Works, labor on boiler, etc.....	6.90	
Thomas A. Lane Co., material and labor, plumbing sun- dry schoolhouses.....	686.71	
Manchester Hardware Co., lock, sash fasts.....	13.75	
Pike & Heald Co., labor clean- ing stove-pipes, plumbing, etc.....	393.82	
S. M. Plumer & Co., repairing locks, fitting keys, etc....	1.70	
G. S. Perry & Co., repairing pencil sharpeners.....	3.00	
James P. Slattery, repairing clocks.....	2.00	
C. A. Trefethen, repairing clocks.....	13.25	
The G. H. Underhill Co., cor- ridor heater.....	243.20	
John B. Varick Co., nails....	5.20	
Perkins & Franks, electrical work.....	5.97	
	<hr/>	\$2,120.66

## MISCELLANEOUS.

Paid Amoskeag Manufacturing Co.:	
Cutting and hauling grass, Straw school lot.....	\$3.00

Labor on flag-staff.....	\$11.66	
Labor grading, Ash-street lot...	9.52	
Paid O. D. Case & Co., slate black-boards .....	216.14	
F. S. Eastman, reefing rope through flag-pole.....	2.00	
Warren Harvey, drilling holes, use of tools.....	11.25	
Paid The Head & Dowst Co.:		
3 flag-poles.....	66.50	
Bronze escutcheons.....	.24	
Paid V. H. Hill, cash paid for cleaning Training school..	4.93	
E. T. James, use of team.....	3.00	
C. F. Jack, cash paid for re-pairing rope.....	1.00	
A. A. Jenkins, tuning pianos.	12.00	
J. G. Jones, freight on black-boards .....	16.61	
J. G. Johnson & Co., 2 stone steps.....	21.00	
S. J. Russell, cleaning vaults.	35.00	
E. A. Sears, putting ropes on flag-poles.....	10.50	
	<hr/>	\$424.35
Total expenditures.....		<hr/> <hr/> \$6,578.38

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### Fuel.

Appropriation.....	\$6,500.00	
Transferred from reserved fund...	284.03	
	<hr/>	<hr/> <hr/> \$6,784.03

## EXPENDITURES.

## COAL.

Paid L. B. Bodwell & Co., 61 tons coal.....	\$382.75	
Dunlap & Wason Coal Co., 116 tons, 410 lbs. coal.....	743.64	
Moore & Preston, 90 3-10 tons coal.....	564.36	
E. W. Poore, 4 tons coal.....	23.00	
D. M. Poore, 60 tons, 250 lbs. coal .....	375.78	
E. V. Turcotte, 710 tons, 440 lbs. coal.....	3,858.58	
J. F. Wyman, 2 tons coal ....	12.50	
	<hr/>	\$5,960.61

## WOOD.

Paid Gilman Clough, 151½ cords wood .....	\$668.25	
Dunlap & Wason Coal Co., 4 cords wood .....	22.13	
Paid S. C. Forsaith Machine Co.:		
Boards .....	1.62	
3¼ cords wood .....	24.77	
Paid J. Hodge, kindling wood.....	1.75	
Michael McCabe, ½ cord wood .....	2.00	
Moore & Preston, wood.....	1.75	
Lester C. Paige, 2 cords wood .....	11.00	
E. W. Poore, wood.....	51.05	
D. M. Poore, wood.....	10.00	
Wilson & McKee, 2 cords wood .....	12.50	
J. F. Wyman, wood.....	11.50	
	<hr/>	\$818.32

## SUNDRIES.

Paid W. R. Blakeley, moving wood and coal .....	\$3.60	
Whitten & Fifield, use of team	1.50	
		<u>\$5.10</u>
Total expenditures .....		<u><u>\$6,784.03</u></u>

## Furniture and Supplies.

Appropriation .....	\$1,000.00	
Transferred from reserved fund..	114.14	
		<u>\$1,114.14</u>

## EXPENDITURES.

## HARDWARE.

Paid Manchester Hardware Co., locks, screws, brushes, wrenches, sash cord, etc...	\$19.36	
John B. Varick Co., dusters, brooms, mats, baskets, locks, etc.....	325.01	
		<u>\$344.37</u>

## BOOKS AND STATIONERY.

Paid E. R. Coburn Co., Cushings' Manual, etc.....	\$1.65	
Oliver Ditson Co., music books	53.22	
W. P. Goodman, books, crayon, etc. ....	2.76	
Educational Publishing Co., subscription to "Primary Education" to January, 1897	1.00	



Paid J. L. Hammett Co., 1 globe...	\$9.00	
Kasson & Palmer, subscription to "Education" to January, 1897 .....	3.00	
G. F. King & Merrill, 16 maps	43.50	
Novelty Advertising Co., cards	1.00	
G. P. Wallace, carbon paper, paper, ribbon.....	4.85	
	<hr/>	\$119.98

## FURNITURE.

Paid Bobrick School Furniture Co.:		
48 desks and seats, Varney.....	\$156.00	
42 desks and seats, Spring-street	136.50	
Paid C. A. Hoitt & Co.:		
Chairs and desks .....	98.81	
96 rubber chair tips .....	3.84	
Use of chairs .....	13.21	
Paid Josselyn & Read, tables.....	10.50	
Paid G. S. Perry & Co.:		
Inkwells .....	20.48	
Mats, sand disks, pencil sharp- eners .....	33.73	
Paid Pike & Heald Co., 24 dustpans	4.75	
	<hr/>	\$477.82

## SUNDRIES.

Paid Joel Daniels & Co., paint....	\$0.40
T. F. Fifield, soap, ammonia, oil .....	10.70
The Head & Dowst Co., lum- ber, labor .....	16.31
William J. Heron, Jr., letter- ing diplomas .....	20.35

Paid Horace Holmes, oil.....	\$0.45	
J. G. Jones, cartage.....	6.50	
Georgie Kendrick, oil and matches .....	.62	
Kimball & Hobbs, 2½ yards enamel .....	.88	
Lightbody & Burbank, 2 brushes .....	.60	
F. E. Nelson, sponges, scis- sors, etc. ....	13.35	
Novelty Advertising Co., stamp, pad, ink .....	8.85	
G. W. Rief, sawdust, etc.....	.95	
John Robbie Co., 243 yards ribbon .....	19.86	
The Sulpho-Naphthol Co., sul- pho-naphthol .....	21.00	
Paid Weston & Hill Co.:		
6 flags .....	47.00	
Matting, etc. ....	4.15	
		<u>\$171.97</u>
Total expenditures .....		<u><u>\$1,114.14</u></u>

### Books and Stationery.

Appropriation .....	<u><u>\$100.00</u></u>
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### EXPENDITURES.

#### SUNDRIES.

Paid W. P. Goodman, books and stationery .....	\$8.04
E. J. Knowlton, P. M., stamps, postals.....	10.00

Paid N. E. Publishing Co.:

Subscription to "Journal of Education" to January, 1896..... \$4.25

Subscription to "American Teacher" to January, 1896..... .50

Paid Novelty Advertising Co., envelopes..... 4.25

E. B. Woodbury, postage and stationery..... 10.50

George P. Wallace, paper.... 8.50

\$46.04

Total expenditures ..... \$46.04

Transferred to reserved fund..... 53.96

\$100.00

### Printing and Advertising.

Appropriation..... \$300.00

Transferred from reserved fund... 129.56

\$429.56

### EXPENDITURES.

#### SUNDRIES.

Paid A. S. Campbell & Co., printing 125 note circulars..... \$1.25

Paid The John B. Clarke Co., printing:

Cards, circulars, postals, diplomas..... 368.91

400 reports..... 59.40

\$429.56

Total expenditures ..... \$429.56

## Contingent Expenses.

Appropriation.....	\$1,600.00	
Transferred from reserved fund...	257.79	
	<hr/>	\$1,857.79
		<hr/>

## EXPENDITURES.

## FREIGHT AND CARTAGE.

Paid J. G. Jones, books, school furniture, lumber, etc.....	\$96.06
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## WATER, GAS, ELECTRIC LIGHTS.

Paid Manchester Electric Light Co., electric lights.....	\$46.40	
Manchester Electric Co., electric lights.....	38.40	
People's Gas-Light Co., gas..	285.60	
Union Electric Co., electric lights.....	120.95	
water commissioners, water.	793.55	
	<hr/>	\$1,284.90

## ANNUAL GRADUATION.

Paid F. P. Colby, moving grand piano .....	\$6.00	
Paid Daniels & Downs:		
Engrossing diplomas .....	13.65	
25 covers .....	.10	
Paid Manchester Opera House Co., use of Opera House June 23, 1896 .....	60.00	
Piper & McIntire, music ....	7.22	
Frank T. Weeks, taking tickets at Opera House.....	2.00	
	<hr/>	\$88.97

## SUNDRIES.

Paid W. E. Buck, use of team visiting suburban schools ...	\$94.00	
C. W. Davis, use of team....	150.00	
Emma J. Ela, cash paid for carrying water .....	17.50	
S. B. Hope, use of team carrying special teacher of music to suburban schools .....	93.00	
Byron Moore, furnishing water for Goffe's Falls school .....	6.50	
Paid pay-roll, division No. 2:		
February .....	18.53	
March .....	8.33	
		<u>\$387.86</u>
Total expenditures .....		<u><u>\$1,857.79</u></u>

## Care of School Rooms.

Appropriation .....	<u><u>\$5,500.00</u></u>
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## EXPENDITURES.

## JANITORS OF SCHOOLHOUSES.

Paid J. S. Avery .....	\$600.00
James E. Bailey .....	170.04
H. G. Batchelder .....	500.04
S. H. Batchelder .....	166.65
W. F. Conner .....	549.96
M. C. Colman .....	12.00
Ida E. Corning .....	14.00

Paid D. S. Dunbar.....	\$22.20	
C. E. Demick .....	23.07	
Rose Elliott .....	11.00	
Emma J. Ela .....	52.07	
V. H. Hill .....	500.04	
C. F. Jack .....	500.04	
W. H. Morrill .....	133.32	
Fred W. Morse .....	5.55	
W. H. Newry .....	549.96	
Almon Proctor .....	21.35	
Eben Paul .....	345.37	
Fred Perron .....	30.50	
J. K. Rhodes .....	60.00	
William Stevens .....	416.64	
R. D. Sleeper .....	6.00	
Inez M. Warren .....	40.25	
J. S. Washburn .....	269.26	
	<hr/>	\$4,999.31

## SUNDRIES.

Paid Ida E. Corning, cleaning Webster's Mills school- house .....	\$2.00
D. S. Dunbar, cleaning Mos- quito Pond schoolhouse...	3.00
H. I. Dodge, cash paid for cleaning schoolhouse .....	6.50
L. W. Harwood, cleaning Par- ker schoolhouse .....	5.85
Mrs. J. E. Langley, cleaning Youngsville schoolhouse .	3.00
G. L. Spaulding, assisting jan- itor, high school .....	9.50

Paid Albert Somes, cash paid for cleaning.....	\$2.40	
		<u>\$32.25</u>
Total expenditures .....		\$5,031.56
Transferred to reserved fund .....		468.44
		<u><u>\$5,500.00</u></u>

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### Evening Schools.

Appropriation .....	<u><u>\$1,500.00</u></u>
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## EXPENDITURES.

## SALARIES.

Paid L. H. Carpenter .....	\$97.00	
C. E. Cochran .....	156.20	
Honorie J. Crough .....	102.00	
Sarah B. Dunbar .....	27.90	
W. W. Forbes .....	61.00	
Julius Hegewald .....	31.00	
Tilla E. Johnson .....	31.00	
Maggie G. Linen .....	58.00	
Carrie G. Mason .....	21.60	
A. W. Morgan .....	134.20	
Josephine A. Mitchell .....	60.00	
W. J. Mooar .....	59.00	
Mary McLaren .....	27.90	
Mary E. Paige .....	27.90	
A. W. Rowell .....	31.00	
Lizabell Savory .....	3.60	
Elizabeth Walsh .....	54.00	
Mary A. Walker .....	18.00	
		<u>\$1,001.30</u>

## JANITORS.

Paid W. F. Conner .....	\$6.00	
Morton E. Sanborn .....	22.50	
	<hr/>	\$28.50

## SUNDRIES.

Paid American Book Co., 10 arith-		
metics .....	\$5.40	
H. S. Clark, rent of hall two		
months .....	26.00	
John B. Varick Co., 1 broom	.30	
	<hr/>	\$31.70
Total expenditures .....		\$1,061.50
Transferred to reserved fund .....		438.50
		<hr/>
		\$1,500.00
		<hr/> <hr/>

## Teachers' Salaries.

Appropriation .....	\$74,000.00
	<hr/> <hr/>

## EXPENDITURES.

Paid teachers, as per pay-roll:

January .....	\$7,037.52	
February .....	7,381.33	
March .....	6,977.17	
April .....	7,045.55	
May .....	7,531.74	
June .....	7,417.64	
September .....	6,918.97	
October .....	7,586.02	
November .....	7,424.59	
December .....	7,355.42	
	<hr/>	\$72,675.95



Paid Annie W. Cofran .....	\$25.00	
Guy W. Cox .....	50.00	
Arthur W. Rowell, .....	88.00	
	<hr/>	\$163.00
Total expenditures .....		\$72,838.95
Transferred to reserved fund .....		1,161.05
		<hr/>
		\$74,000.00
		<hr/> <hr/>

### Evening School Mechanical Drawing.

Appropriation .....	\$500.00
	<hr/> <hr/>

#### EXPENDITURES.

##### SALARIES.

Paid Henry W. Allen.....	\$159.75	
John M. Kendall .....	158.50	
	<hr/>	\$318.25

##### SUNDRIES.

Paid W. M. Butterfield, blue prints	\$20.00	
E. R. Coburn Co., paper.....	18.00	
	<hr/>	\$38.00
Total expenditures .....		\$356.25
Transferred to reserved fund .....		143.75
		<hr/>
		\$500.00
		<hr/> <hr/>

### Free Text-books.

Appropriation .....	\$5,000.00	
Transferred from reserved fund...	58.42	
	<hr/>	\$5,058.42
		<hr/> <hr/>

## EXPENDITURES.

## FREE TEXT-BOOKS AND SUPPLIES.

Paid Allyn & Bacon .....	\$104.80
American Book Co. ....	799.03
B. S. Andrew .....	40.00
Balch Brothers .....	22.25
E. E. Babb & Co.....	359.83
Boston School Supply Co....	76.20
T. H. Castor & Co.....	102.07
W. O. Crosby.....	34.50
Oliver Ditson Co.....	9.26
Directors of Old South Work	.30
Eagle Pencil Co.....	135.20
W. H. Elliott .....	4.90
Ginn & Co. ....	567.51
J. L. Hammett Co.....	180.95
D. C. Heath & Co.....	199.03
Holden Patent Book Cover	
Co. ....	113.58
Edwin E. Howell .....	4.00
G. F. King & Merrill.....	436.58
King-Richardson Publishing	
Co. ....	93.15
Kimball & Hobbs .....	.60
C. H. Kimball .....	1.65
Lee & Shepard .....	16.00
Leach, Shewell & Sanborn ..	26.75
Longmans, Green & Co.....	28.62
Maynard, Merrill & Co.....	32.80
Mead, Dodge & Co.....	5.58
The Prang Educational Co...	456.64
Herman Roedelsperger .....	5.00
George S. Perry & Co. ....	54.35
Silver, Burdett & Co. ....	70.35

Paid Albert Some.....	\$3.00	
Thompson, Brown & Co.....	79.85	
The Manchester Ink Co.....	30.00	
University Publishing Co. ..	88.29	
William Ware & Co. ....	362.65	
G. P. Wallace .....	.65	
M. G. Wright & Co. ....	12.50	
	<hr/>	\$4,558.42

## LABOR.

Paid Fannie L. Sanborn, services as clerk in superintendent's office.....		\$500.00
Total expenditures .....		<hr/> \$5,058.42 <hr/>

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Manual Training.

Appropriation .....	\$1,500.00
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## EXPENDITURES.

Paid Fred E. Browne, teacher.....	\$1,199.91
Mrs. Ora Burpee, material and making 36 aprons .....	10.00
E. R. Coburn Co., blue print, drawing paper .....	3.46
J. L. Hammett Co., gross pen- cils .....	2.50
Hanover-street Laundry, in- delible ink .....	.50
The Head & Dowst Co., lum- ber and labor .....	67.84
J. Hodge, lumber .....	55.36
Palmer, Parker & Co., 111 feet gum wood .....	15.03
Temple & Farrington Co., cardboard, envelopes .....	3.47

Paid John B. Varick Co., brads tacks, screws, locks, sandpaper etc.....	\$45.22	\$1,403.29
Total expenditures .....		\$1,403.29
Transferred to reserved fund.....		96.71
		<u>\$1,500.00</u>

### City Library.

Balance from last year unex- pended .....	\$3,220.42	
Appropriation .....	4,500.00	\$7,720.42
		<u><u>\$7,720.42</u></u>

### EXPENDITURES.

#### LIBRARIAN AND ASSISTANTS.

Paid Kate E. Sanborn, librarian...	\$900.00	
George R. Fletcher .....	436.50	
Arthur H. Fletcher .....	294.50	
A. C. Fitzpatrick .....	1.45	
L. B. James .....	18.45	
G. W. Swallow .....	133.25	
A. N. Tasker .....	49.85	
		<u>\$1,834.00</u>

#### CATALOGUE AND CATALOGUE SUPPLIES.

Paid Library Bureau:		
Index cards .....	\$50.35	
Binders .....	4.40	
Fasteners, shelf sheets, etc.....	5.40	
Paid Louise E. Newell, copyist ....	255.90	
Edith O. Simmons .....	370.95	
Temple & Farrington Co., slips, ink, books, postals and printing .....	78.90	
		<u>\$765.90</u>

## NEW BOOKS.

Paid trustees of city library ..... \$1,000.00

## WATER, GAS, FUEL, INSURANCE.

Paid L. B. Bodwell & Co., wood...	\$20.25	
Clough & Twombly, premium on \$10,000 insurance on library contents .....	125.00	
People's Gas-Light Co., gas	26.60	
E. V. Turcotte, 56 tons, 700 lbs. coal .....	301.44	
Union Electric Co., electric lights .....	315.85	
water-works, use of water...	16.00	
	<hr/>	\$805.14

## BINDING, RE-BINDING, AND RE-SEWING.

Paid Boston Book-binding Co.....	\$49.62	
Temple & Farrington Co.....	189.51	
	<hr/>	\$239.13

## SUNDRIES.

Paid L. B. Bodwell & Co., ice daily:	
May 8 to October 31, 1895.....	\$5.84
May 1 to October 31, 1896.....	7.50
Paid The John B. Clarke Co., "Mir- ror" to April 1, 1896.....	6.00
Paid T. A. Lane Co.:	
Labor on electric lights.....	.50
24 lamps, flue brush.....	5.67
Paid C. F. Livingston, book covers and printing.....	193.48
Kate E. Sanborn, cash paid for cleaning.....	12.53

Paid Temple & Farrington Co., picture cord, and hanging one picture.....	\$1.68	
	<hr/>	\$233.20
Total expenditures.....		\$4,877.37
Transferred to new account.....		2,843.05
		<hr/>
		<u>\$7,720.42</u>

### Fire Department.

Appropriation.....	\$61,000.00	
Transferred from reserved fund...	2,567.65	
	<hr/>	\$63,567.65
		<hr/>

### EXPENDITURES.

#### SERVICES.

Paid Thomas W. Lane, chief engineer.....	\$1,300.00	
Fred S. Bean, assistant engineer.....	175.00	
Ruel G. Manning, assistant engineer.....	175.00	
Eugene S. Whitney, assistant engineer.....	175.00	
Clarence R. Merrill, assistant engineer.....	175.00	
Fred S. Bean, clerk.....	25.00	
	<hr/>	\$2,025.00
Paid teamsters and engineers, as per pay-roll:		
January.....	\$1,758.65	
February.....	2,262.68	

March.....	\$2,769.14
April.....	2,194.18
May.....	2,262.93
June.....	2,275.14
July.....	2,269.60
August.....	2,241.10
September.....	2,359.14
October.....	2,303.68
November.....	2,299.43
December.....	2,267.89
	<hr/> \$27,263.56

## CALL MEMBERS.

Paid Engine Co. No. 1:	
For year 1896 .....	\$1,690.00
Extra labor .....	8.00
Paid Engine Co. No. 2:	
For year 1896 .....	1,679.99
Extra labor .....	8.00
Paid Engine and Ladder Co. No. 3:	
For year 1896 .....	2,270.60
Extra labor .....	8.00
Paid Engine Co. No. 4:	
For year 1896 .....	1,690.00
Extra labor .....	8.00
Paid Engine and Ladder Co. No. 5:	
For year 1896 .....	2,450.00
Extra labor .....	8.00
Paid Engine and Ladder Co. No. 6:	
For year 1896 .....	2,441.70
Extra labor .....	8.00
Paid Chemical Engine Co. No. 1, for	
year 1896 .....	465.00
Paid Hook-and-Ladder Co. No. 1:	
For year 1896 .....	1,820.83

Extra labor .....	\$8.00	
Paid Hose Co. No. 1:		
For year 1896 .....	1,685.00	
Extra labor .....	8.00	
Paid Hose Co. No. 2:		
For year 1896 .....	1,685.00	
Extra labor .....	8.00	
Paid Hose Co. No. 3:		
For year 1896 .....	910.00	
Extra labor .....	8.00	
	<hr/>	\$18,868.12

## OTHER LABOR.

Paid J. Newell Brown, labor as engineer .....	\$220.50	
C. A. Butterfield, labor as driver .....	263.25	
Frank O. Bartlett, labor as driver .....	21.00	
Fred W. Bond, labor as driver .....	21.00	
Richard F. Galway, labor as driver .....	22.50	
Fred A. Lang, labor as driver .....	21.00	
Alcide Provencher, labor as driver .....	31.50	
Thomas Smith, labor as driver .....	21.00	
F. W. Tebbetts, labor as driver .....	63.00	
Jesse W. Truell, labor as driver .....	76.50	
John K. Wilson, labor .....	1.75	
	<hr/>	\$763.00



## LAUNDRY.

Paid Mrs. Richard Galway.....	\$20.09	
Mrs. G. M. Goodwin.....	38.19	
Charles N. Cutler .....	7.00	
Mrs. M. H. Hulme .....	57.28	
W. Morse .....	18.75	
Mrs. Margaret Powers .....	60.09	
Mrs. Susie E. Reed .....	8.40	
L. A. Sawyer .....	17.95	
Mrs. C. C. Tinkham .....	7.00	
Mrs. W. F. Wheeler .....	5.25	
	<hr/>	\$240.00

## FURNITURE, ETC.

Paid Barton & Co.:		
Matting, iron ends, etc.....	\$21.47	
Blanket .....	1.38	
Paid C. A. Hoitt & Co.:		
5 mattresses .....	15.00	
10 comforters .....	16.00	
2 springs .....	5.00	
Bedsteads, bureaus, chairs .....	37.00	
4 pillows .....	3.00	
Screen, table, mirror, etc.....	10.85	
Matting, zinc ends .....	16.43	
Paid John Robbie Co., pillow slips	6.90	
C. A. Trefethen, 1 clock.....	3.50	
Weston & Hill Co., cotton, crash, matting, spreads, gingham .....	49.85	
	<hr/>	\$186.38

## PRINTING AND STATIONERY.

Paid The John B. Clarke Co., print- ing:	
1,000 envelopes .....	\$24.00

400 reports .....	\$67.75	
Advertising notice .....	25.50	
Paid W. P. Goodman, 1 journal...	2.00	
The Nate Kellogg Co., print-		
ing circulars, envelopes,		
cards, etc.....	58.55	
Temple & Farrington Co., pa-		
per, ink, pencils, books, etc.	15.19	
Engine Co. No. 1 .....	10.00	
Engine Co. No. 2 .....	10.00	
Engine and Ladder Co. No. 3.	10.00	
Engine Co. No. 4.....	10.00	
Engine and Ladder Co. No. 5.	10.00	
Engine and Ladder Co. No. 6.	10.00	
Chemical Engine Co. No. 1..	10.00	
Hook-and-Ladder Co. No. 1..	10.00	
Hose Co. No. 1.....	10.00	
Hose Co. No. 2.....	10.00	
Hose Co. No. 3.....	10.00	
	<hr/>	\$302.99

## WATER, GAS, ELECTRIC LIGHTS, TELEPHONE.

Paid N. E. Telephone & Telegraph		
Co., use of telephones.....	\$281.71	
People's Gas-Light Co., gas	914.90	
Union Electric Co., electric		
lights .....	64.60	
Water-Works, water .....	417.80	
	<hr/>	\$1,679.01

## FUEL.

Paid L. B. Bodwell & Co.:	
98 3-5 tons broken coal.....	\$613.75
10 tons egg coal.....	62.50
Cannel coal.....	306.60
16 cords slabs.....	91.00

Paid Bert Jarvis, splitting wood...	\$1.25	
Paid Moore & Preston:		
Coal.....	50.00	
2 loads slabs.....	10.00	
Paid J. P. Russell & Co.:		
10 tons egg coal.....	67.50	
1 load mixed wood.....	3.25	
Paid E. V. Turcotte, 106 tons, 1,920 lbs. coal.....	572.24	
	<hr/>	\$1,778.09

## SUPPLIES.

Paid Clark M. Bailey, toilet paper, dusters.....	\$28.10	
Paid Henry K. Barnes:		
3 electric wire-cutters.....	28.80	
Washers, globes, hooks, etc.....	41.97	
Paid J. A. & W. Bird:		
Bi-carbonate soda.....	19.00	
Ammonia.....	3.52	
Brushes.....	31.80	
Paid Boston Belting Co., hose- washers, etc.....	10.15	
Boston Woven Hose & Rub- ber Co., 1 ladder.....	24.00	
J. H. Bunnell & Co., insula- tors.....	6.25	
Fletcher Brown, 15 chestnut poles.....	37.50	
Paid Cornelius Callahan Co.:		
1 Boston pipe.....	15.00	
1 rotary gong.....	15.00	
1 collar and hames.....	26.00	
Buckets, mat, matting.....	16.25	

## Paid Cavanaugh Brothers:

7 horses.....	\$1,250.00
Freight.....	6.00
Board and difference in trade of horses.....	198.35
Paid Cooper Hose Jacket Co., 25 hose jackets.....	250.00
The Daniels-Cornell Co., 300 packages soap powder....	9.00
G. A. Farmer, oak wood.....	4.00
T. F. Fifield, soap, oil, matches, sugar.....	8.03
H. Fradd & Co., oil.....	3.70
R. D. Gay, awnings and frames .....	15.00
D. M. Goodwin, 24 brooms..	9.00
A. W. Harris Oil Co., 120 lbs. scouree .....	30.00
T. F. Hannaford, 24 brooms..	9.50
S. F. Hayward & Co., pony ex- tinguishers, bottles, and holders .....	47.50
Charles T. Holloway, hose...	3.50
J. Hodge, lumber .....	10.85
C. H. Hutchinson Foundry & Machine Works, castings..	18.63
A. S. Jackson, hose, brushes, globes, etc.....	29.75
T. A. Lane Co., pipe, packing, lamps, hose .....	66.35
Manchester Broom Co., 24 brooms.....	7.50
Manchester Locomotive Works, hose, brackets, valve springs, packing ....	21.80

Manchester Mills, cotton waste.....	5.26	
Miller Smoke Protector Co., 1 smoke protector.....	4.50	
Norfolk Manufacturing Co., soap, etc.....	18.75	
C. N. Perkins & Co., 12 snaps.	18.00	
People's Gas-Light Co., 1 mantel.....	.50	
Plumer & Holton, overalls, reefers, duck.....	319.00	
Pike & Heald Co., lanterns, globes, can, water-pot, etc..	21.62	
The Reilly Medal Co., 25 badges.....	16.25	
Stark Mills, canvas aprons, duck.....	4.32	
The Sulpho-Naphthol Co., sulpho-naphthol.....	21.00	
Talbot Dyewood & Chemical Co., soda.....	5.04	
D. B. Varney, brass castings, etc.....	9.95	
R. M. West, ladder.....	5.32	
	<hr/>	\$2,751.31

## PLUMBING, REPAIRS, ETC.

Paid Amoskeag Manufacturing Co., castings.....	\$10.29
F. W. Blood Roofing Co., repairing 2 lanterns.....	.25
J. R. Carr & Co., paint and labor.....	6.22
The Head & Dowst Co., lumber, labor.....	5.94

Paid T. A. Lane Co., material and labor .....	\$55.56	
H. J. Lawson, copper and labor .....	9.50	
Paid Manchester Locomotive Works:		
Castings and repairs .....	78.92	
Splicing sliding pole .....	3.00	
Paid Pike & Heald Co., material and labor .....	14.37	
G. W. Reed, labor on engine..	2.00	
E. J. Sears, services on Chemical engine .....	4.00	
C. A. Trefethen, repairing clock .....	1.00	
Union Manufacturing Co., plating lanterns, brackets, etc. ....	7.05	
D. B. Varney, castings .....	.50	
	<hr/>	\$198.60

## HARDWARE.

Paid Manchester Hardware Co. . . .	\$71.52	
John B. Varick Co. ....	213.36	
Wadleigh Hardware Co. ....	3.33	
	<hr/>	\$288.21

## MEDICAL AND SURGICAL.

Paid A. F. Abbott, V. S., visits and medicine .....	\$200.80	
Charles M. Bailey, V. S., visits and medicine .....	22.75	
P. H. Boire, medicines .....	6.55	

Paid Z. F. Campbell, alchohol, ointment .....	\$3.65	
N. Chandler, hoof ointment..	4.50	
E. H. Currier, 12 boxes Williams's Sure Cure.....	7.00	
A. L. Dodge, V. S., visits and medicine.....	13.75	
Charles Harvey, medicine....	2.75	
A. A. Potter, salve.....	4.00	
C. E. Silver, medicine, etc....	8.85	
A. D. Smith, medicine.....	7.20	
Paid E. C. Smith:		
Syringes .....	1.80	
Campho-naphthaline .....	.75	
Paid Snelling & Woods, medicine..	9.08	
Tebbetts & Soule, medicine..	2.00	
	<hr/>	\$295.43

## CARRIAGE-WORK AND REPAIRS.

Paid Clark M. Bailey, axle-grease..	\$2.60	
Couch & McDonald, carriage repairs.....	65.25	
A. Filion, repairing wagon...	9.50	
Paid Manchester Locomotive Works:		
1 set wheels.....	145.00	
Re-setting tires.....	10.00	
Paid J. B. McCrillis & Son, carriage repairs .....	425.41	
Sanborn Carriage Co., repairs on wagons.....	12.50	
	<hr/>	\$670.26

## BLACKSMITHING.

Paid J. M. Brouillette.....	\$257.00
Cressey & Colby.....	144.37

Paid Thomas Hickey .....	\$57.00	
A. Lemire.....	63.80	
Mahaney & McSweeney.....	472.50	
	<hr/>	\$994.67

## HAY, GRAIN, ETC.

Paid Adams Brothers.....	\$22.10	
Annis Flour & Grain Co.....	875.70	
W. E. Clark.....	18.54	
George Eaton.....	52.12	
Freeman & Merrill.....	185.68	
Gage & McDougall.....	588.75	
Clarence R. Merrill.....	777.15	
W. F. Merrill.....	1,175.90	
Nichols & Allen.....	872.07	
Partridge Brothers.....	89.84	
A. P. Tasker.....	88.86	
	<hr/>	\$4,746.71

## HARNESSES AND HARNESS SUPPLIES.

Paid The Fred Allen Co., repairs and supplies.....	\$75.46	
W. H. Adams, repairs, sup- plies.....	119.95	
George Dunnington, repairs, supplies.....	26.60	
W. E. Greeley, repairs.....	3.45	
John F. Kerwin, 4 pails paste.	5.00	
Paid The Ranno Harness Co.:		
12 whips.....	19.80	
Supplies and repairs.....	143.34	
	<hr/>	\$393.60

## SUNDRIES.

Paid J. R. Carr & Co., painting cover for hose wagon.....	\$1.25	
C. J. Cronin, cleaning carpets	12.45	



Paid P. Donovan, Jr., use of hacks.	\$40.00	
A. M. Finney, cleaning carpets.....	6.59	
E. R. Laing, cloth for cover...	1.88	
Thomas W. Lane, express and cartage.....	5.85	
Morgan, Crossman & Co., 3 stamps.....	2.25	
O. G. Reed, use of hack.....	5.00	
E. Sargent, drawing hay.....	4.50	
C. H. Simpson, use of hacks..	10.00	
Weston & Hill Co., repairing flag.....	2.75	
John W. Wilson, freight and truckage.....	30.04	
J. H. Wiggin & Co., vinegar..	.15	
	<hr/>	\$122.71
Total expenditures.....	\$63,567.65	<hr/> <hr/>

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### Fire Alarm Telegraph.

Appropriation.....	<u>\$2,000.00</u>
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## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-roll:	
January.....	\$54.00
February.....	50.00
March.....	52.00
April.....	52.00
May.....	52.00

June .....	\$52.00	
July .....	56.00	
August.....	52.00	
September.....	52.00	
October.....	56.00	
November.....	52.00	
December.....	54.00	
	<hr/>	\$634.00
Paid Daniel Cameron.....	\$6.25	
Alfred Gustaffson.....	7.50	
Edward A. Sears.....	1.00	
M. A. Weathers.....	3.00	
	<hr/>	\$17.75

## SUPPLIES.

Paid American Electrical Works, wire .....	\$31.04
James Baldwin Co., 600 pins.	6.00
J. A. & W. Bird & Co., vitriol.	84.83
J. H. Bunnell & Co., tele- graph supplies.....	83.16
The Brodie Electric Co., re- pairing telephone, etc.....	16.36
James R. Carr & Co., paint...	21.48
The Edes Manufacturing Co., zincs.....	3.58
The Electric Gas-Lighting Co., tacks and rings.....	.88
John C. Gold, climbing spurs.	5.80
Charles F. Hall, patterns and castings.....	8.00
W. A. Hazelton, 20 poles.....	55.00
J. Hodge, lumber, etc.....	35.89
T. A. Lane Co., pipe and coup- ling.....	.63
Morgan, Crossman & Co., 7 stamps.....	3.70

## Paid N. E. Gamewell Co.:

2 fire-alarm boxes .....	\$150.00
1 gong.....	7.00
Repairs .....	7.25

Paid Pettengill Andrews Co., wire,  
etc.....

21.00

Pike &amp; Heald Co., solder, tin. .51

Sanborn Carriage Co., 3 roof  
tripods, repairs, etc..... 9.30

Stark Mills, duck..... 1.06

Talbot Dyewood & Chemical  
Co., vitriol..... 212.46C. A. Trefethen, 3 bottles  
watch-oil..... .75

John B. Varick Co., hardware 49.94

D. B. Varney, castings..... 123.89

Washburn & Moen Manufac-  
turing Co., wire..... 128.09

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\$1,067.60

## SUNDRIES.

Paid W. B. Corey, drawing poles...	\$9.50
Peter Harris, drilling.....	.15
Union Manufacturing Co., plating.....	.60
John W. Wilson, freight and truckage.....	.82

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\$11.07

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Total expenditures..... \$1,730.42

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Transferred to reserved fund..... 269.58

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\$2,000.00

## Hydrant Service.

Appropriation.....	\$16,800.00
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## EXPENDITURES.

Paid Water-Works, rent of 632 hydrants.....	\$16,800.00
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## Police Department. — Station.

Appropriation.....	\$2,800.00
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## EXPENDITURES.

## SERVICES.

Paid Frank P. Wiggin, janitor.....	\$652.75
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## WATER, GAS, ELECTRIC LIGHTS, FUEL.

Paid L. B. Bodwell & Co.:	
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4 tons coal.....	\$25.00
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1 cord wood.....	9.00
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Paid J. M. Clark:	
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26 tons coal.....	155.50
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1 cord wood.....	6.00
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Paid Dunlap & Wason Coal Co.:	
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3 tons coal.....	19.50
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3 cords wood.....	15.00
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Paid People's Gas-Light Co., gas...	150.50
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D. M. Poore, 1 cord wood.....	4.50
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E. V. Turcotte, 63 tons, 670 lbs. coal.....	338.86
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Union Electric Co., electric lights.....	333.78
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Water-Works, use of water..	217.57
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	<u>\$1,275.21</u>
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## LAUNDRY, ETC.

Paid Clark M. Bailey:	
Toilet paper.....	\$27.64
Mop-yarn, pails, dusters, etc.....	8.86
Paid A. N. Clapp, broom, mop, soap	1.17
The Daniels-Cornell Co., soap-	
powder.....	3.36
Mrs. A. M. George, washing	
floors, etc.....	93.60
Manchester Hardware Co.,	
5 lbs. scourer.....	1.25
J. J. Moran, dippers, etc.....	2.75
John B. Varick Co., brooms,	
sponge, yarn.....	3.97
Mrs. J. F. Wiggin, washing	
towels, blankets, etc.....	55.20
Miss M. A. Wiggin, washing	
towels, etc.....	4.32
	<hr/>
	\$202.12

## SANITARY.

Paid J. J. Holland, ammonia.....	\$12.00
C. W. Lerner & Co., disin-	
fectants.....	14.50
The Sulpho-Naphthol Co., sul-	
pho-naphthol.....	17.50
	<hr/>
	\$44.00

## REPAIRS, ETC.

Paid L. M. Aldrich:	
Repairing desk.....	\$1.33
Repairing window.....	1.35
Paid D. J. Adams, repairing cell-	
doors, etc.....	11.20

Paid M. J. Coleman, material and labor .....	\$16.80	
J. F. Conway, repairing chair	.50	
Aloysius Eastman, mason-work .....	2.41	
Peter Harris, clock-work....	1.25	
George Holbrook, fixing doors and windows.....	2.50	
T. A. Lane Co., hose, asphaltum, labor .....	6.40	
Merrill & Laird, repairing lock, etc.....	1.49	
Pike & Heald Co., plumbing material and labor.....	54.42	
Leander Pope, repairing bunk-chains, etc.....	6.10	
Charles Thompson, repairing clock.....	1.00	
Union Manufacturing Co., plating door-spring, etc....	1.00	
	<hr/>	\$107.75

## SUNDRIES.

Paid C. A. Hoitt & Co.:		
Enamel cloth, cushion.....	\$1.25	
Chairs, shades, etc.....	16.03	
Paid John B. Varick Co., matches..	6.00	
Weston & Hill Co., 60 yards crash.....	7.20	
	<hr/>	\$30.48
Total expenditures.....	\$2,312.31	
Transferred to reserved fund.....	487.69	
	<hr/>	\$2,800.00
	<hr/>	

## Police Department. — Court.

Appropriation .....	\$3,900.00
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## EXPENDITURES.

## SERVICES.

Paid John C. Bickford, clerk.....	\$600.00	
Isaac L. Heath, police justice .	1,500.00	
George Prescott, associate justice .....	300.00	
	<hr/>	\$2,400.00

## CONVEYING PRISONERS.

Paid Healy & Cassidy.....	\$871.00
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## PRINTING AND STATIONERY.

Paid A. S. Campbell & Co., printing warrants, civil dockets, writs, etc.....	\$154.50	
The John B. Clarke Co., print- ing blank books.....	20.75	
Temple & Farrington Co., stationery.....	2.35	
J. Arthur Williams, rubber stamps.....	1.25	
	<hr/>	\$178.85

## SUNDRIES.

Paid M. J. Coleman, hose bibb and labor.....	\$1.10
M. J. Healy, cash paid for witness fees and other ex- penses.....	407.48

Paid T. D. Luce, certificate of appeal .....	\$2.00	
People's Gas-Light Co., gas..	7.56	
		<u>\$418.14</u>
Total expenditures.....		\$3,867.99
Transferred to reserved fund.....		32.01
		<u>\$3,900.00</u>

### Police Department. — Commission.

Appropriation.....	\$36,000.00	
Transferred from reserved fund...	866.75	
		<u>\$36,866.75</u>

### EXPENDITURES.

#### SERVICES.

Paid Michael J. Healy, chief of police .....	\$900.00	
John F. Cassidy, deputy chief	800.00	
Harry Loveren, chairman commission, salary.....	150.00	
N. S. Clark, commissioner, salary .....	100.00	
Frank P. Carpenter, commissioner, salary.....	100.00	
C. B. Hildreth, private detective .....	29.25	
A. B. Brown, police matron..	423.00	
Regular patrol.....	23,246.61	
Extra time of regular patrol..	1,405.51	
Special patrol.....	6,807.10	
		<u>\$33,961.47</u>



## TELEPHONE AND TELEGRAPH.

Paid N. E. Telephone and Tele-		
graph Co., use of telephones	\$322.64	
Western Union Telegraph		
Co., telegrams.....	6.67	
	<hr/>	\$329.31

## TEAMS.

Paid G. W. Bailey.....	\$7.00	
Boyd Brothers.....	1.50	
W. J. Freeman.....	222.51	
E. T. James.....	1.00	
J. C. Nichols & Son.....	1.50	
C. H. Simpson.....	24.50	
G. E. Wheeler & Son.....	2.50	
	<hr/>	\$260.51

## FEEDING PRISONERS.

Paid Daniel Davis.....	\$185.40	
Diet Kitchen Association....	113.00	
W. D. Ladd & Co.....	31.11	
	<hr/>	\$329.51

## PRINTING, ADVERTISING, STATIONERY.

Paid The John B. Clarke Co., print-		
ing:		
Notices, envelopes, papers, etc..	\$11.25	
Record arrests.....	34.00	
Application papers.....	12.50	
Blank book.....	8.80	
Advertising notice.....	8.50	
Paid E. R. Coburn Co., stationery..	2.25	
F. W. Barry, Beale & Co., 500		
blanks.....	21.00	

Paid W. P. Goodman:

Stationery.....	\$11.56
48 diaries.....	34.39

Paid E. P. Gerould &amp; Co., 2 letter

books.....	5.50
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L'Avenir National, advertising notice.....

3.50

Temple &amp; Farrington Co., record book.....

1.00

Union Publishing Co., advertising notice.....

4.01

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 \$158.26

## PATROL SYSTEM EXPENSES.

Paid Adams Brothers, oats, straw, feed.....

\$19.88

A. F. Abbott, V. S., visits and medicine.....

7.00

L. M. Aldrich, material and labor.....

10.44

Ernest Beauregard, labor changing wires.....

19.00

Boston &amp; Maine R. R., freight on horse.....

4.20

J. M. Brouillette, shoeing horse.....

1.75

Thomas F. Degnan, labor as lineman.....

17.50

Roscoe Dyer, hanging swing harness.....

5.00

A. L. Dodge, V. S., visits and medicine.....

11.75

Paid A. Filion:

1 two-seated wagon.....	140.00
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New shafts and painting.....	13.00
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Paid George S. Hedden, labor as lineman.....	\$17.50
Mrs. H. E. Hutchinson, 1,240 lbs. straw.....	10.52
John F. Kerwin, harnesses, robes, etc.....	56.85
Kimball Carriage Co., robes and blankets.....	31.00
Kimball & Hobbs, rubber blankets, apron, hose, etc..	14.00
Manchester Electric Co., 1 pole.....	3.00
Paid The Municipal Signal Co.:	
100 rolls register paper, etc.....	18.60
Time stamp ribbons.....	4.00
Police signal supplies.....	423.81
Paid N. E. Telephone & Telegraph Co., 1 barrel glass.....	9.69
Perkins & Franks, electrical work.....	19.97
Partridge Brothers, grain....	40.65
Pettengill Andrews Co., elec- trical supplies.....	156.59
The Ranno Harness Co., bri- dles.....	7.00
Sanborn Carriage Co., repairs	9.20
H. H. Simons, hay.....	40.20
John B. Varick Co., hardware	53.39
Washburn & Moen Manufac- turing Co., wire.....	126.25
J. F. Woodbury, horse-shoe- ing.....	17.50
J. W. Wilson, freight and cartage.....	5.25
Paid N. J. Whalen:	
1 harness.....	65.00

Blankets, straps, etc.....	\$10.15	
Paid A. M. Winchester, 10 dinners.	7.50	
	<hr/>	\$1,397.14

## SUNDRIES.

Paid L. W. Colby, photographing criminals.....	\$36.00	
H. D. W. Carvelle, M. D., pro- fessional services.....	5.00	
Louis Derome, use of boats...	5.00	
J. G. Ellinwood, photograph- ing criminals.....	10.75	
S. C. Forsaith Machine Co., stock and labor.....	30.32	
E. H. Holmes, moving goods from Creighton house.....	5.00	
George Holbrook, labor, lum- ber, etc.....	7.25	
Peter Harris, brass tubes, flanges, locks.....	9.00	
C. H. Hutchinson, castings and labor.....	7.40	
C. A. Hoitt & Co., carpet, chairs, basket.....	8.40	
J. Hodge, lumber and labor..	10.96	
Thomas A. Lane Co., globe, wire, etc.....	3.47	
Manchester Coal & Ice Co., ice from May 11 to October 20.....	9.25	
A. W. Mitchell Manufactur- ing Co., 42 badges.....	47.25	
Manchester Hardware Co., screws, rope, wire.....	2.60	
Paid Leander Pope:		
Grapple hook.....	1.25	

Repairing tools.....	\$3.75	
Paid Pike & Heald Co., material and labor.....	7.00	
Star Stamp Co., stencil, brush, ink.....	1.80	
D. A. Taggart, services and expenses at Concord, peti- tion against police commis- sioners.....	79.41	
E. M. Topliff, services and ex- penses at Concord, petition against police commission- ers.....	52.44	
F. H. Thurston, medicine....	5.60	
John B. Varick Co., hardware	70.15	
G. L. Wakefield, M. D., profes- sional services.....	6.00	
Weston & Hill Co., blankets, etc.....	5.50	
	<hr/>	\$430.55
Total expenditures.....	\$36,866.75	<hr/> <hr/>

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### Police Patrol System.

Appropriation.....	<u>\$10,000.00</u>
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## EXPENDITURES.

## ARCHITECT.

Paid Chickering & O'Connell, drawings and specifications of stable.....	\$218.96
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## CONTRACTS.

Paid L. M. Aldrich: Building stable.....	\$3,997.00
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Extras.....	\$229.38	
Paid E. M. Bryant & Co.:		
Wiring stable for lights.....	94.80	
Batteries, tubing, etc.....	3.80	
Paid The Municipal Signal Co., po-		
lice signal system.....	4,625.00	
	<hr/>	\$8,949.98

## EQUIPMENTS.

Paid Cavanaugh Brothers, 2 horses	\$290.00	
A. Filion, 1 patrol wagon....	340.00	
	<hr/>	\$630.00

## SUNDRIES.

Paid The John B. Clarke Co., ad-		
vertising proposals.....	\$17.28	
Daniels & Downs, typewrit-		
ing.....	.90	
Edwin F. Jones, expenses		
to Boston and Cambridge		
with chairman of police		
commission.....	7.40	
T. A. Lane Co., material and		
labor, gas and electric fix-		
tures.....	11.66	
Le Merrimack Publishing		
Co., advertising proposals..	4.50	
Pike & Heald Co., plumbing		
material and labor.....	145.24	
Union Publishing Co., adver-		
tising proposals.....	13.89	
	<hr/>	\$200.87
Total expenditures.....		\$9,999.81
Transferred to reserved fund.....		.19
		<hr/>
		<u>\$10,000.00</u>

## Repairs of Buildings.

Appropriation.....	\$6,000.00	
Transferred from reserved fund...	1,549.68	
	<hr/>	\$7,549.68

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll,  
division No. 2:

January.....	\$30.00	
February.....	24.00	
March.....	24.00	
April.....	30.00	
May.....	24.00	
June.....	30.00	
July.....	24.00	
August.....	24.00	
September.....	30.00	
October.....	24.00	
November.....	24.00	
December.....	30.00	
	<hr/>	\$318.00

Paid labor of men and teams, as per pay-roll,  
division No. 7:

December.....	\$8.49
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Paid labor of men and teams, as per pay-roll,  
division No. 10:

November.....	\$210.50	
December.....	178.78	
	<hr/>	\$389.28

Paid labor of men and teams, as per pay-roll,  
commons:

November.....	\$300.37	
December.....	740.50	
	<hr/>	\$1,040.87

## CITY LIBRARY.

Paid J. J. Abbott, 3 lights glass and setting.....	\$0.75	
C. B. Brown, material and labor.....	87.76	
J. F. Burton, masonwork....	3.70	
J. E. Charnley, material and labor repairing cornice....	6.27	
W. E. Goodwin, plumbing....	.85	
Paid George Holbrook:		
Clearing snow off roof.....	13.00	
Lumber and labor.....	44.45	
Paid C. A. Hoitt & Co., stools and table.....	9.00	
George Hamlin, painting exterior.....	156.35	
T. A. Lane Co., material and labor, electric lights, etc...	427.02	
Pike & Heald Co., repairing radiator valves.....	4.19	
	<hr/>	\$753.34

## POLICE STATION.

Paid L. M. Aldrich, material and labor.....	\$98.90	
Paid The Head & Dowst Co.:		
Labor.....	2.01	
1 door.....	1.60	
Paid George Holbrook, lumber and labor, patrol stable.....	63.00	
Pike & Heald Co., plumbing material and labor.....	121.79	
C. H. Robie Co., concrete work.....	42.05	
	<hr/>	\$329.35



## SUB-POLICE STATION.

Paid Robert J. Hill, sheathing, box- ing pipes.....	\$150.00	
H. J. Lawson, extra work....	20.00	
Clemens Langer, material and labor.....	186.13	
Leibing Bros., paint and labor	49.72	
Leibing & Kuhn, glass.....	1.65	
Perkins & Franks, electric supplies .....	17.10	
J. T. Underhill & Co., con- crete .....	107.03	
	<hr/>	\$531.63

## ENGINE-HOUSES.

Paid J. J. Abbott, paint, labor, etc., sundry houses .....	\$242.20	
M. Badger, paint, glass, labor, East Manchester hosehouse	5.38	
James R. Carr & Co., paper	7.87	
Joel Daniels & Co., paint, Lake avenue .....	6.51	
J. P. Finn, hanging paper, etc.	44.73	
D. E. Guiney, plumbing re- pairs .....	43.52	
George Hamlin, glass and labor .....	9.96	
George Holbrook, lumber and labor, sundry houses .....	292.03	
J. Hodge, windows, door frames, lumber .....	60.51	
The Head & Dowst Co., lum- ber and labor, sundry houses.....	187.21	

Paid Robert J. Hill, repairs.....	\$97.00
Samuel Hill, painting .....	85.00
Paid C. A. Hoitt & Co.:	
Table, chairs, East Manchester hosehouse .....	14.28
desk, chairs, South Manchester hosehouse .....	26.95
Paper, Lake avenue house .....	28.62
Paid Clemens Langer, repairing roof .....	12.80
W. G. Landry, bank wall, South Manchester hose- house .....	94.00
T. A. Lane Co., changing steam pipes .....	7.05
Herman Maynard, painting and papering East Man- chester hose house.....	28.00
Paid D. G. Mills:	
Repairs and painting Vine street house .....	185.00
Repairs, Fulton house .....	16.70
Paid P. J. O'Brien, painting Lake avenue house.....	88.00
Perkins & Franks, electric supplies, South Manchester hosehouse .....	11.97
Paid Pike & Heald Co., plumbing material and labor:	
Vine-street house .....	181.17
Gen. Stark house .....	59.34
Fire King house .....	93.17
Paid B. W. Robinson, mason work, Vine street .....	18.85
Thomas Smith, labor and lumber .....	129.05

Paid L. M. Streeter, shingles, rope, pulleys, labor, East Man- chester hosehouse.....	24.37	
W. H. Sullivan, material and labor, varnishing interior Fire King house .....	69.00	
John T. Underhill & Co., con- crete .....	10.00	
Whittemore & Johnson, labor, East Manchester hosehouse	12.00	
A. C. Wallace, lumber.....	22.33	
Oliver Whyte & Co., 2 gates..	30.00	
	<hr/>	\$2,244.57

## COURT HOUSE.

Paid L. M. Aldrich, taking off win- dows.....	\$0.75	
Charles B. Brown, gravel roofing, etc.....	122.33	
D. E. Guiney, plumbing re- pairs.....	46.46	
The Head & Dowst Co., lum- ber and labor.....	50.87	
Charles A. Hoitt & Co., cocoa matting and laying same...	8.80	
C. A. Healy, paint and labor.	10.18	
George Holbrook, screen door, window screens, etc..	12.75	
The Kirby Floral Co., plants.	18.70	
T. A. Lane Co., steam fittings.	28.78	
John B. Varick Co., seed, fer- tilizer, rakes, etc.....	22.22	
	<hr/>	\$321.84

## SCHOOLS.

Paid The Bobrick School Furniture Co., 48 No. 2 desks, Wilson school.....	\$168.00	
H. I. Dodge, painting fence and shed, Goffe's Falls.....	42.25	
Warren Harvey, stone and labor, Ash-street school.....	149.63	
C. A. Hoitt & Co., desk and chairs.....	19.85	
Paid T. A. Lane Co.:		
Fitting augers and extension, high school.....	1.00	
Marble slab, etc., Straw school..	9.85	
Paid W. H. Perkins, painting fence, etc., Goffe's Falls.....	55.35	
Pike & Heald Co., plumbing..	35.06	
G. Allen Putnam, 95 loads loam, South Main-street school.....	38.00	
C. H. Robie Co., grading, transplanting trees, concreting, Ash-street school..	298.32	
C. A. Trefethen, 4 clocks.....	14.00	
John B. Varick Co., paint and oil.....	15.70	
	<hr/>	\$847.01

## SUNDRIES.

Paid L. M. Aldrich, lumber and labor.....	\$6.05
E. M. Bryant & Co., wiring sub-police station for voting purposes.....	38.36

Paid The John B. Clarke Co., advertising proposals.....	\$7.50
Connor Brothers, work at ward five ward-room.....	22.40
P. Donovan, Jr., use of.. hack.....	5.00
S. C. Forsaith Machine Co., Hall's rocking grater.....	40.50
Warren Harvey, building retaining wall.....	381.00
Israel Huneau, labor, lumber, nails.....	20.82
J. B. Huntley, pipe and coupling.....	6.08
Robert J. Hill, building boxes, ward 8 ward-room.....	20.00
George Holbrook, lumber and labor.....	34.25
W. F. Hubbard, repairing window, etc.....	1.00
Paid The Head & Dowst Co.:	
Lumber, labor, pest-house.....	8.01
Fence rails, labor, Goffe's Falls..	50.38
Paid Clemens Länger, repairing furnaces, ward five ward-room...	30.55
Paid Pike & Heald Co., material and labor:	
Ward five ward-room.....	7.00
Battery building.....	2.03
Public comfort.....	2.45
Paid C. H. Simpson, use of hacks..	20.00
P. J. O'Brien, glass, putty, labor.....	8.73
John B. Varick Co., hardware	18.69
C. M. Wheeler, 12 posts.....	27.00

Paid Whitten & Fifield, use of hacks.....	\$7.50	
		<u>\$765.30</u>
Total expenditures.....		<u><u>\$7,549.68</u></u>

## Public Bath-Houses.

Appropriation.....	<u>\$2,500.00</u>
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## EXPENDITURES.

Transferred to city hall appropria- tion.....	\$1,000.00	
Transferred to incidental expenses appropriation.....	<u>1,500.00</u>	<u><u>\$2,500.00</u></u>

## New Schoolhouses.

Balance from last year unexpended	\$19,346.61	
Received from sale of bonds.....	120,000.00	
Received from sale of land.....	10,885.70	
Transferred from reserved fund...	<u>2,923.87</u>	<u><u>\$153,156.18</u></u>

## EXPENDITURES.

## HIGH SCHOOL.

*Architect.*

Paid W. M. Butterfield, on account.....	\$3,082.50
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*Contract.*

Paid The Head & Dowst Co., on ac- count.....	\$76,384.00	
Thomas A. Lane Co., heating, on account.....	<u>9,200.00</u>	<u><u>\$85,584.00</u></u>

*Advertising.*

Paid The John B. Clarke Co., ad- vertising proposals.....	\$16.67	
Union Publishing Co., adver- tising proposals.....	11.96	
	<hr/>	\$28.63

*Sundries.*

Paid pay-roll division No. 2, July..	\$79.75	
John T. Underhill & Co., con- crete.....	158.24	
	<hr/>	\$237.99

## STRAW SCHOOL.

*Contract.*

Paid Fuller & Warren Warming & Ventilat- ing Co., balance due.....	\$520.00
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## WILSON SCHOOL.

*Architect.*

Paid W. M. Butterfield, professional services..	\$365.00
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*Contracts.*

Paid The Head & Dowst Co.:		
Balance due.....	\$7,787.00	
Extras.....	1,413.85	
Paid Thomas A. Lane Co.:		
Speaking tubes and electric bells	96.00	
Combination gas and electric fix- tures.....	375.00	
Paid The George H. Underhill Co., final payment for heating.....	597.50	
	<hr/>	\$10,269.35

*Furniture.*

Paid The Bobrick School Furniture Co., 240 adjustable desks and seats.....	\$833.60
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Paid C. A. Hoitt & Co., desks and chairs.....	\$58.75	
C. A. Trefethen, 5 clocks.....	17.50	
	<u>          </u>	\$909.85

*Sundries.*

Paid J. Choate & Co., gilding letters on tablet.	\$6.00	
	<u>          </u>	
Total expenditures.....	\$101,003.32	
Balance to new account.....	52,152.86	
	<u>          </u>	\$153,156.18
	<u>          </u>	

## New Schoolhouse, West Manchester.

Transferred from reserved fund...	\$10,255.54	
Transferred from appropriation for incidental expenses.....	2,000.00	
Transferred from appropriation for addition to Derryfield park..	8,000.00	
	<u>          </u>	\$20,255.54
		<u>          </u>

## EXPENDITURES.

## CONTRACT.

Paid W. M. Butterfield, contractor.....	\$19,965.00
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## SUNDRIES.

Paid Head & Dowst Co., material and labor.....	\$237.14	
John T. Underhill Co., con- crete work.....	53.40	
	<u>          </u>	\$290.54
		<u>          </u>
Total expenditures.....	\$20,255.54	
		<u>          </u>



## Water-Works.

Balance from last year unexpended	\$42,720.01	
Cash received from water rents...	128,907.03	
	<hr/>	\$171,627.04
		<hr/>

## EXPENDITURES.

## LABOR.

Paid labor of men, as per pay-rolls:

January .....	\$1,480.55	
February.....	1,244.15	
March.....	1,355.30	
April.....	1,781.65	
May.....	2,082.67	
June.....	2,470.87	
July.....	1,958.39	
August.....	2,049.42	
September.....	2,428.87	
October.....	1,919.74	
November.....	1,956.24	
December.....	2,308.37	
	<hr/>	\$23,036.22

Paid labor of men, as per pay-roll, division  
No. 2:

March.....	\$25.00	
December.....	1,262.82	
	<hr/>	\$1,287.82

Paid J. H. Proctor:

Labor on highway, seeding lawn at high service station.....	\$79.86	
Labor and use of team, grading, etc.....	913.89	
	<hr/>	\$993.75

## GENERAL EXPENSE.

Paid F. W. Elliott, dinners, annual inspection.....	\$25.00	
W. C. Clarke, 11 meetings of board.....	44.00	
Henry Chandler, 32 meetings of board.....	128.00	
Henry Chandler, clerk.....	100.00	
Alpheus Gay, 30 meetings of board.....	120.00	
Charles H. Manning, 14 meetings of board.....	56.00	
Charles T. Means, 15 meetings of board.....	60.00	
Harry T. Parker, 14 meetings of board.....	56.00	
A. C. Wallace, 11 meetings of board.....	44.00	
Paid Manchester Street Railway:		
Barges.....	23.00	
Tickets.....	1.00	
Paid A. P. Partelow, use of steamer.....	8.00	
Paid C. K. Walker:		
Salary as superintendent.....	1,999.86	
Gas.....	27.45	
Express.....	9.05	
Postage stamps.....	18.20	
Map, pens, insurance.....	7.67	
Incidentals.....	8.42	
	<hr/>	\$2,735.65

## PRINTING, ADVERTISING, STATIONERY.

Paid A. S. Campbell & Co., printing 19,500 notices.....	\$28.00
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Paid The John B. Clarke Co., printing:

20,000 blank bills.....	\$40.00
2,500 postals.....	29.50
1,000 notices.....	1.75
700 reports.....	120.00
Books, signs.....	12.40
Advertising, 1 line, 28 times....	7.00
Binding 1 volume reports.....	1.00
Paid E. R. Coburn Co., stationery..	15.21
Paid Temple & Farrington Co.:	
Stationery.....	2.71
Binding maps.....	2.50
Paid Union Publishing Co., advertising.....	6.05

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\$266.12

## ENGINEERING SERVICES.

Paid Joseph B. Sawyer, services of self and men.....

\$308.34

## TEAMS, TELEPHONE, FUEL.

Paid L. B. Bodwell & Co.:

54 tons, 1,880 lbs. coal.....	\$395.76
1 barrel coal.....	.40
Wood.....	12.00
Paid Bangs & Horton, 85 7-10 tons coal.....	285.92
Gilman Clough, 10 cords wood.....	36.50
E. T. James, use of teams....	17.50
N. E. Telephone & Telegraph Co., use of telephones.....	144.45
J. A. & A. Walker, 150 tons, 1,000 lbs. coal.....	506.83

Paid George Whitford, wood.....	\$17.00	
Whitten & Fifield, use of team	2.00	
J. F. Wyman, hard wood.....	6.00	
	<hr/>	\$1,424.36

## LAND.

Paid George A. Alger, land as per deed .....	\$100.00	
G. J. & A. M. Cyr, land and buildings as per deed....	1,200.00	
Ann Currier, land as per deed	500.00	
Martha M. Chase, land as per deed .....	1,400.00	
Mrs. L. A. Follansbee, land as per deed.....	75.00	
Addie Fletcher, land and buildings as per deed.....	3,100.00	
Asa B. Haselton, land as per deed .....	5,000.00	
Emma M. Heath, land as per deed .....	800.00	
J. A. Hutchinson, land and buildings, as per deed....	3,100.00	
Josephine B. Hunter, land and buildings, as per deed.	7,100.00	
Isaac Huse, land as per deed.	2,500.00	
Anna P. Partelow, land and buildings as per deed.....	500.00	
Luther S. Proctor, land and buildings as per deed....	5,000.00	
Mary E. Stuber, land and buildings as per deed.....	2,000.00	
Clara B. Wheeler, land as per deed .....	150.00	
	<hr/>	\$32,525.00

## LEGAL SERVICES.

Paid C. H. Burns, retainer in damage cases, and other services .....	\$1,120.00	
Drury & Peaslee, legal services .....	994.24	
Wm. Morrill, copy of deeds..	60.20	
John M. Parker, services appraising land.....	25.00	
Geo. S. Peavey, examining property for appraisal.....	74.25	
Kimball Webster, services and expenses.....	45.58	
	<hr/>	\$2,319.27

## HARDWARE, BLACKSMITHING, FREIGHT.

Paid John T. Beach, welding.....	\$2.00	
Boston & Maine R. R., freight	2,445.11	
James H. Cram, sharpening tools .....	5.10	
Cressey & Colby, sharpening tools, etc.....	267.50	
A. Fillion, shafts for roller...	6.00	
Manchester Hardware Co., tools .....	60.39	
John B. Varick Co., hardware	406.81	
	<hr/>	\$3,192.91

## SUPPLIES.

Paid Adams Brothers, 20 casks cement.....	\$27.50
Paid Amoskeag Manufacturing Co.: 2 keys .....	4.50

Pipe, etc.....	\$485.31
Paid Boston Belting Co., 100 feet hose.....	30.50
Builders' Iron Foundry, pipe.....	33.75
Boston Lead Manufacturing Co., solder.....	10.15
F. Brown, 175 posts.....	21.00
A. N. Clapp, kerosene.....	33.30
P. C. Cheney Co., wiping waste .....	24.15
Paid Chadwick Lead Works:	
225 pigs lead.....	635.16
125 bars lead.....	357.84
pipe .....	53.32
Paid Chapman Valve Manufactur- ing Co., hydrants, gates, etc	591.44
Coffin Valve Co., 1 stem.....	2.50
James H. Cram, 2 grapples, 2 rings.....	2.00
G. E. Foster & Co., 1 second- hand steel chest .....	200.00
S. C. Forsaith Machine Co., 1 flue cleaner.....	2.50
Garlock Packing Co., packing	36.91
Gould & Stevenson, 10 hy- drants .....	320.00
W. H. Griffin, 80-foot flagpole	10.00
Groton Bridge Manufacturing Co., spruce lumber.....	5.70
A. W. Harris Oil Co., valve oil.....	27.25
A. Higgins & Co., 2,800 wash- ers .....	3.95
Paid Hays Manufacturing Co.:	
300 stop boxes.....	255.00

49 curb cocks.....	\$34.30
Paid Hersey Manufacturing Co., brass meters.....	598.75
Paid J. Hodge:	
400 meter boxes.....	120.00
lumber, etc.....	3.30
Paid M. L. Johnson, curb stops, nips, etc.....	462.08
Kimball & Hobbs, rubber gaskets, washers.....	38.40
C. M. Kemp Manufacturing Co., 1 stock, pawl, spring..	8.19
Thomas A. Lane Co., valves, gaskets, unions, etc.....	73.78
H. T. Lawson, copper.....	1.21
*Leonard & Ellis, machine oil and tanks.....	186.00
Lead Lined Iron Pipe Co., pipe	1,253.31
Manchester Locomotive Works, valves, castings, sleeves, bolts, etc.....	705.06
W. P. Miller & Co., 1 keg lubricant .....	16.50
Albert Moulton, barrels.....	3.60
McNeal Pipe & Foundry Co., pipe .....	12,187.61
National Meter Co., meters...	1,928.05
National Tube Works, pipe, sleeves, etc.....	483.10
Neptune Meter Co., meters...	258.60
Paid Norwood Engineering Co.:	
Hydrant post.....	6.00
Hydrant cases.....	152.50
Paid Peet Valve Co., 15 water gates	199.00
Paid Pratt & Cady Co.:	
5 hydrants.....	155.00

1 tap for hydrant.....	\$14.00
Paid Rensselaer Manufacturing Co., water gates.....	205.00
T. H. Risdon & Co., 1 spider and lever for water wheel..	8.47
Schaffer & Budenburg, 24 springs .....	12.00
G. O. Spencer, 100 posts.....	12.00
Thomson Meter Co., meters..	299.95
Union Brass Co., caps, cocks, nipples .....	220.21
Union Water Meter Co., me- ters.....	1,442.35
Vacuum Oil Co., oil.....	57.05
Paid Walworth Manufacturing Co.: 200 cocks.....	103.91
2. pipe tongs.....	23.40
Paid Mrs. F. A. Woodman, 20 cords manure .....	120.00
Weston & Hill Co., 1 flag....	6.25
Henry R. Worthington, jacket elbows, etc.....	6.95
L. B. West Co., water pail..	.65
	<hr/> \$24,580.26

## REPAIRS.

Paid Amoskeag Manufacturing Co.: Repairing counter.....	\$1.50
Labor on gears, etc.....	33.50
Paid F. X. Daniels & Co., labor on barn .....	455.17
J. B. Dickinson, batteries, and repairing line.....	23.34
A. M. Finney, repairing chairs and desk.....	10.73
S. C. Forsaith Machine Co., iron and labor.....	.76



## Paid The Head &amp; Dowst Co.:

Material and labor strengthening foot-bridge, Granite street, for pipe .....	\$306.86
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Lumber and labor .....	3.97
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## Paid Joseph Huncau &amp; Son, mate-

rial and labor .....	19.65
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Thomas A. Lane Co., labor and material, electric lights, etc. ....	20.49
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Manchester Locomotive Works, labor on boiler, col- lars, etc. ....	58.55
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National Meter Co., repairing meters .....	61.81
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Pike & Heald Co., repairs...	1.14
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C. H. Robie Concrete Co., con- creting .....	452.81
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## Paid L. &amp; W. T. Seiberlich:

Painting barn and shed .....	75.00
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Paint and labor .....	75.39
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## Paid Ira F. Sturtevant, lumber and

labor .....	667.31
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Charles P. Still, labor on cel- lar and barn .....	73.05
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C. J. Shanessy, repairing wheels .....	4.85
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J. T. Underhill & Co., laying gravel roof, etc. ....	44.41
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Union Water Meter Co., re- pairs on meters .....	92.74
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H. Wyman, moving barn, and one day's labor .....	51.50
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Westover & Co., frames, sash- es, casings .....	75.22
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\$2,609.75

## SUNDRIES.

Paid town of Auburn, taxes on land and buildings.....	\$163.88
W. B. Corey, cartage.....	2.00
A. S. Chadbourne, trees.....	25.00
Jacob P. Chase, stones and distributing same.....	12.25
Dickey & Coleman, manure..	118.20
Forbes Lithograph Manufac- turing Co., 1 zinc block....	15.00
D. L. Miller & Co., "Atlas of Manchester".....	25.00
Paid J. H. Proctor:	
Carting coal.....	94.40
Paid men for cutting trees and brush.....	109.90
Paid Luther S. Proctor, moving and distributing bound stones.....	6.00
Albert Palmer, manure.....	84.30
Sinking Fund commissioners, amount of hydrant tax for 1896 .....	16,800.00
G. W. Townsend, services and expenses as diver.....	46.75
W. H. Shilvock, half-tone, station and dam.....	11.55
	<hr/> \$17,514.23
Total expenditures.....	\$112,793.68
Transferred to interest appropriation.....	41,446.00
Balance to new account.....	17,387.36
	<hr/> <hr/> \$171,627.04

## Commons.

Appropriation.....	\$4,500.00
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## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll:

January.....	\$259.10
February.....	165.49
March.....	70.99
April.....	188.12
May.....	146.50
June.....	181.25
July.....	118.25
August.....	163.12
September.....	498.40
October.....	238.10
November.....	286.86
December.....	133.88

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\$2,450.06

## PLANTS, TREES, ETC.

Paid Orison Hardy, 15 trees.....	\$11.25
A. G. Hood, plants.....	60.00
J. S. Holt & Co., ashes.....	160.87
H. H. Huntress, plants.....	70.00
The Kirby Floral Co., plants.....	53.50

Paid Ray Brook Garden Co.:

Tulips.....	36.00
Other plants.....	52.00

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\$443.62

## WATER AND ELECTRIC LIGHTS.

Paid Union Electric Co., electric lights.....

lights.....	\$30.00
Water-Works, use of water..	700.00

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\$730.00

## REPAIRS AND GENERAL EXPENSES.

Paid J. J. Abbott:	
Green paint.....	\$19.36
Lettering signs.....	3.25
Paid L. M. Aldrich:	
Filing saws.....	4.40
Lumber, signs, etc.....	8.09
Paid Boston Woven Hose & Rubber Co., hose.....	
	145.20
W. E. Goodwin, repairing fountain and pipe.....	31.20
Peter Harris, keys.....	2.00
The Head & Dowst Co., lumber.....	39.42
C. A. Healy, paint and labor..	41.92
J. Hodge, lumber, etc.....	13.34
C. A. Hoitt & Co., 10 yards burlap.....	2.00
Paid C. H. Hutchinson Foundry & Machine Works:	
Castings and labor.....	29.22
Material and labor on ice-scraper, lawn-mower, fence, etc.....	19.46
Paid T. A. Lane Co.:	
Material and labor on gas-pipe...	2.93
Labor on fountains, band-stand.	15.14
7 tin dippers.....	1.40
Paid Manchester Hardware Co.,	
nails, chain.....	3.44
C. E. Palmer, tin, solder, and labor.....	5.00
Parnell Brothers, 5 barrels...	2.50
Leander Pope, sharpening tools.....	28.60

Paid Public Market Co., 5 barrels..	\$2.50	
C. H. Robie Co., concreting walks.....	222.97	
John B. Varick Co., tools, hardware.....	58.13	
Wingate & Gould, 8 pairs rubber boots.....	26.00	
	<hr/>	\$727.47
Total expenditures.....		\$4,351.15
Transferred to reserved fund.....		148.85
		<hr/>
		\$4,500.00
		<hr/>

### Stark and Derryfield Parks.

Balance from last year unexpended	\$0.14	
Appropriation.....	5,000.00	
	<hr/>	\$5,000.14
		<hr/>

### EXPENDITURES.

#### LABOR.

Paid labor of men and teams, as per commons  
pay-roll:

January.....	\$30.00	
February.....	20.75	
March.....	54.12	
April.....	193.25	
May.....	821.37	
June.....	1,253.72	
July.....	808.33	
August.....	477.83	
December.....	23.90	
	<hr/>	\$3,683.27

Paid labor of men and teams, as per pay-roll,  
division No. 2:

June.....	\$185.43	
July.....	500.00	
	<hr/>	\$685.43

## TOOLS, HARDWARE, REPAIRS, ETC.

Paid J. H. Hoben, 30 loads paving		
stone.....	\$37.50	
J. Hodge, oak rod.....	.70	
W. G. Landry, stone.....	1.00	
T. A. Lane Co., valve, bibb...	2.22	
Manchester Hardware Co.,		
hardware.....	17.22	
John A. Sargent, paint and		
labor.....	6.60	
John B. Varick Co., tools,		
hardware.....	74.81	
	<hr/>	\$140.05

## SHRUBS, TREES, ETC.

Paid A. H. Chadbourne & Co.,		
shrubs and trees.....	\$335.00	
J. S. Holt & Co., ashes, 900		
bushels.....	112.50	
	<hr/>	\$447.50

## SUNDRIES.

Paid John Fullerton, 4 barrels....	\$2.00	
Manchester Water-Works,		
use of water.....	24.00	
Parnell Brothers, 1 hoghead	.75	
People's Gas-Light Co., 4		
chaldrons coke.....	17.00	
	<hr/>	\$43.75

Total expenditures .....	\$5,000.00	
Transferred to new account.....	.14	
	<hr/>	\$5,000.14
	<hr/>	

## Pine Grove Cemetery.

Appropriation .....	\$8,500.00	
Transferred from reserved fund...	93.54	
	<hr/>	\$8,593.54

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll:

January.....	\$161.15	
February.....	168.26	
March.....	157.76	
April.....	432.20	
May.....	621.26	
June.....	716.07	
July.....	536.69	
August.....	487.00	
September.....	482.41	
October.....	362.13	
November.....	473.17	
December.....	270.32	
	<hr/>	\$4,868.42

Paid labor of men and teams, as per pay-roll,  
division No. 2:

October.....	\$11.12
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## PLANTS, TREES, LOAM, ETC.

Paid F. B. Balch, 2 tons fertilizer..	\$50.00
A. H. Chadbourne & Co.,	
shrubs.....	30.00
James A. Colby, 55 loads loam	82.50
Frank Chenette, 19 loads	
loam.....	19.00
C. W. Eager, 154 loads loam..	231.00
H. H. Gurney & Co., shrubs..	75.00
Addison Gray, 99 loads gravel	9.90

Paid H. H. Huntress, plants.....	\$12.10	
R. K. Horne, 19 loads loam...	9.50	
A. G. Hood, plants.....	52.80	
Joseph Poor, 86 loads gravel.	8.60	
John B. Varick Co., seed.....	45.36	
C. C. Webster, 32 loads clay..	32.00	
	<hr/>	\$657.76

## WATER, TELEPHONE, INSURANCE, FUEL.

Paid A. Elliott & Co., premium on insurance policy No. 760,- 777.....	\$2.50	
Co., use of telephones.....	84.00	
Dunlap & Wason Coal Co., 3 tons coal.....	21.00	
Water-Works, use of water..	922.50	
	<hr/>	\$1,030.00

## PRINTING AND STATIONERY.

Paid The John B. Clarke Co., print- ing bills, contracts, notices, blanks.....	\$13.65	
E. R. Coburn Co., paper.....	.40	
W. P. Goodman, stationery...	3.35	
E. J. Knowlton, P. M., envel- opes.....	2.17	
W. E. Moore, printing re- ceipts.....	2.00	
	<hr/>	\$21.57

## REPAIRS AND IMPROVEMENTS.

Paid L. M. Aldrich:	
Filing saw.....	\$0.35
Hardware and labor.....	6.21



Paid J. J. Abbott, paper and hang-	
ing same.....	\$2.49
John T. Beach, repairing cart	7.10
J. Choate & Co., paint and la-	
bor.....	2.13
Day & Boynton, sheathing,	
jams, door.....	5.55
Hartwell Foundry Co., cast-	
ings.....	1.80
Paid The Head & Dowst Co.:	
3,000 brick.....	21.00
Cement and lumber.....	15.17
Paid C. A. Hoitt & Co., 12 folding	
chairs.....	10.00
J. Hodge, lumber and stakes.	7.23
C. H. Hutchinson Foundry &	
Machine Works, castings	
and labor.....	9.58
Paid T. A. Lane Co.:	
Material and labor on fountain,	
etc.....	7.19
Pipe and labor.....	148.95
Paid Manchester Heating & Light-	
ing Co., pipe.....	6.66
Theodore Miller, labor clean-	
ing and repairing stoves...	36.83
Palmer & Garmons, setting	
over stones.....	7.10
Paid Pike & Heald Co.:	
Material and labor on sewer.....	877.80
Other labor.....	6.97
Paid W. L. Roper, mason-work....	3.75
C. H. Robie Co., concreting...	315.42
Morton E. Sanborn, 12 lawn	
sprinklers.....	9.50
Shirley & Stuart, mason-work	7.70

Paid W. H. Sullivan, repairs on office, chapel, etc.....	\$209.23	
John B. Varick Co., tools, hardware.....	125.99	
L. B. West, drinking-cups....	1.50	
G. R. Vance, water-pot.....	.75	
	<hr/>	\$1,853.95

## SUNDRIES.

Paid C. H. Bartlett, services as clerk.....	\$50.00	
Hannah D. Hall, part of lot No. 1,100.....	74.00	
O. G. Reed, hacks .....	10.00	
S. J. Russell, cleaning vault..	5.00	
F. L. Wallace, box for removal of Hall's child .....	2.00	
Whitten & Fifield, hack.....	5.00	
S. C. Forsaith Machine Co., lumber .....	4.72	
	<hr/>	\$150.72
Total expenditures .....		<u><u>\$8,593.54</u></u>

## Valley Cemetery.

Appropriation .....	\$3,000.00	
Transferred from reserved fund...	6.84	
	<hr/>	<u><u>\$3,006.84</u></u>

## EXPENDITURES.

## LABOR.

Paid labor of men and teams, as per pay-roll:	
January .....	\$78.25
February .....	59.75

March.....	\$63.50	
April .....	165.87	
May .....	224.67	
June .....	266.45	
July .....	220.89	
August .....	208.52	
September .....	230.93	
October .....	176.40	
November .....	164.52	
December .....	86.72	
	<hr/>	\$1,946.47
Paid B. F. Bascomb .....	\$84.00	
James Hannon .....	6.25	
Freeman & Merrill .....	4.00	
Peter Rodgers.....	3.75	
	<hr/>	\$98.00

## WATER AND TELEPHONE.

Paid N. E. Telephone & Telegraph Co., use of telephones.....	\$36.00	
water commissioners, use of water .....	165.90	
	<hr/>	\$201.90

## TURF, LOAM, PLANTS, ETC.

Paid H. E. Babcock, trees.....	\$6.00	
B. F. Bascomb, loam, stone..	45.75	
J. Francis, plants.....	62.62	
C. H. G. Foss, cash paid for shrubs .....	2.00	
H. H. Gurney, shrubs.....	6.50	
H. H. Huntress, plants .....	18.75	
C. Menseau, loam.....	1.30	
Jeremiah Murphy, 3 loads loam .....	1.50	
Peter Rodgers, 163 loads sand	32.60	
P. O. Woodman, turf and loam .....	32.83	
	<hr/>	\$209.85

## PRINTING AND STATIONERY.

Paid E. J. Knowlton, P.M., stamped envelopes.....	\$3.52	
Temple & Farrington Co., stationery.....	7.45	
	<hr/>	\$10.97

## REPAIRS, TOOLS, AND IMPROVEMENTS.

Paid J. J. Abbott, painting fence...	\$24.77	
John Francis, 1 pair rubber boots.....	2.75	
Hartwell Foundry Co., 1,203 numbers.....	180.45	
The Head & Dowst Co., lumber and labor.....	89.07	
Kimball & Hobbs, hose and couplings.....	18.50	
T. A. Lane Co., labor on urinal and faucet.....	11.90	
F. I. Lessard & Co., pipe, hose, etc.....	10.90	
Palmer & Garmons, setting stones.....	10.00	
Paid Pike & Heald Co.:		
Hose, nozzles, pipe, etc.....	27.08	
Material and labor.....	10.80	
Paid C. H. Robie Co., concreting walks.....	52.11	
D. A. Simons, 1 chair .....	2.50	
John T. Underhill & Co., concrete work.....	12.52	
John B. Varick Co., tools and hardware.....	57.63	
Weston & Hill Co., 1 rug.....	8.00	
	<hr/>	\$518.98

SUNDRIES.

Paid G. W. Bailey, use of team....	\$1.50	
B. F. Bascomb, 2½ cords manure.....	8.17	
S. P. Cannon, services as clerk of sub-trustees.....	10.00	
Lovejoy & Stratton, cleaning clock.....	1.00	
	<u>      </u>	\$20.67
Total expenditures.....		<u><u>\$3,006.84</u></u>

Amoskeag Cemetery.

'Appropriation.....	<u><u>\$350.00</u></u>
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EXPENDITURES.

LABOR.

Paid James E. Bailey.....	\$67.00	
F. D. Heath.....	20.62	
Anson McGaffey.....	11.25	
	<u>      </u>	\$98.87

SUNDRIES.

Paid W. E. Goodwin:		
Plumbing material and labor....	\$33.77	
Iron fence, two posts.....	197.80	
Paid Manchester Water-Works,		
use of water.....	12.00	
Palmer & Garmons, setting stones.....	7.28	
	<u>      </u>	\$250.85
Total expenditures.....		<u><u>\$349.72</u></u>
Transferred to reserved fund.....		.28
		<u><u>\$350.00</u></u>

## Paupers off the Farm.

Appropriation .....	\$10,500.00	
Transferred from reserved fund...	1,640.67	
		<u>\$12,140.67</u>

## EXPENDITURES.

## GROCERIES, ETC.

Paid Burke Brothers.....	\$4.00
Bartlett & Thompson.....	96.00
Ernest Boisvert.....	46.00
Eager & Co.....	50.00
Edson Eastman & Co.....	15.75
A. M. Eastman.....	12.00
H. Fradd & Co.....	245.00
T. F. Fifield.....	714.41
G. E. French.....	50.88
A. H. Gray.....	64.00
A. G. Grenier.....	63.00
Griffin Brothers.....	1,378.22
Joseph Huard.....	225.50
O. D. Knox & Co.....	232.02
Lamoreaux Brothers.....	53.77
J. N. Lacourse.....	13.00
Patrick Lynch.....	5.00
E. Marchand.....	604.30
Thomas H. Mahoney.....	324.00
A. W. Morse.....	204.00
McQuade's Market.....	93.00
Noyes & Prince.....	77.64
F. X. Parent.....	15.00
D. M. Poore & Son.....	51.00
O. W. Price.....	6.12
E. W. Perkins.....	18.00

Paid Queen City Market.....	\$8.00	
Eugene Quirin.....	282.17	
Charles Robitaille.....	31.76	
Scheer & Renker.....	5.00	
D. A. Shanahan.....	144.00	
J. O. Turcotte.....	50.00	
H. A. Tirrell.....	25.00	
Trahan & Co.....	75.00	
Calixte Vigneault.....	2.00	
Moise Verrette.....	40.00	
Henry Weber.....	60.00	
	<hr/>	\$5,384.54

## FUEL.

Paid James Baldwin Co.....	\$2.50	
L. B. Bodwell & Co.....	13.50	
V. Bourque & Co.....	70.50	
Boisclair & Raiche.....	3.00	
B. J. Cate.....	3.50	
F. X. Chenette.....	2.50	
Dunlap & Wason Coal Co....	59.50	
W. E. Dunbar & Co.....	19.50	
Philius Gravelin.....	29.00	
William Godbout.....	18.25	
Joseph Masse.....	7.00	
Moore & Preston.....	29.00	
John Perham.....	10.00	
D. M. Poore.....	37.88	
W. E. Prescott.....	4.00	
John P. Russell & Co.....	164.75	
E. V. Turcotte.....	44.50	
J. F. Wyman.....	90.38	
	<hr/>	\$609.26

## BOARD AND CARE AND RENT.

Paid C. H. Allard.....	\$10.00	
Mrs. Mary E. Buck.....	5.00	
Sister Cabana.....	40.00	
Frank A. Cadwell.....	10.00	
county of Hillsborough.....	717.92	
Mrs. Louis Duhaime.....	24.00	
Elliott Hospital.....	59.00	
W. H. Gilmore.....	130.09	
Mary Harrington.....	32.00	
Agnes Massey.....	64.00	
Christina Maycook.....	134.14	
N. H. Orphans' Home.....	28.00	
Notre Dame de Lourdes Hos- pital.....	20.00	
Napoleon Paris.....	4.00	
Celia Pressey.....	232.30	
D. L. Robinson.....	60.00	
State Industrial School.....	3,748.28	
St. Patrick's Orphans' Home.	280.00	
St. Patrick's Old Ladies' Home.....	192.00	
William Whelpley.....	102.00	
Fred Weissbach.....	15.00	
	<hr/>	\$5,907.73

## CLOTHING.

Paid F. C. Dow.....	\$1.50	
A. & W. S. Heath.....	2.00	
Lightbody & Burbank.....	24.30	
John L. Niven.....	3.10	
Michael O'Dowd.....	21.25	
P. F. O'Toole.....	25.50	
Daniel Stevens.....	12.00	
O. G. Trudeau.....	11.25	
Weston & Martin.....	1.00	
	<hr/>	\$101.90



## MEDICINES, MEDICAL SERVICES.

Paid Irving L. Carpenter, M. D., medical examination, Mc- Nab Webster.....	\$3.00	
F. H. Thurston, medicines...	70.35	
	<hr/>	\$73.35

## SUNDRIES.

Paid Boston & Maine R. R., tickets.	\$7.33	
Paid The John B. Clarke Co., print- ing:		
200 postals.....	3.00	
50 copies rules, etc.....	12.00	
Paid W. P. Goodman, stationery...	5.36	
C. S. McKean, meals deliv- ered destitute persons.....	1.25	
W. H. Maxwell, conveyance of sundry persons to county farm and insane asylum...	13.30	
Charles Morgrage, carrying J. Landry to county farm..	5.00	
A. E. Martell & Co., 2 letter books.....	5.50	
Temple & Farrington Co., 1 copy of General Statutes and express.....	11.15	
	<hr/>	\$63.89
Total expenditures.....	\$12,140.67	

## City Farm.

Appropriation.....	\$8,000.00	
Transferred from reserved fund...	463.89	
	<hr/>	\$8,463.89

## EXPENDITURES.

Paid E. G. Libbey, superintendent.	\$500.00	
Mrs. Annie Libbey, matron...	300.00	
	<hr/>	\$800.00

## HOUSE AND FARM LABOR.

Paid labor of men and women, as per pay-roll:

January.....	\$207.55	
February.....	152.05	
March.....	129.16	
April.....	181.89	
May.....	162.38	
June.....	226.48	
July.....	169.28	
August.....	183.66	
September.....	230.43	
October.....	177.45	
November.....	191.71	
December.....	181.89	
	<hr/>	\$2,193.93
Paid Alice Butterfield.....	\$5.50	
John Casey.....	10.22	
Augustine Freeman.....	15.40	
Fred Gannon.....	5.13	
Maude Hazen.....	2.15	
George Lake.....	17.60	
Eddie Moore.....	1.25	
Christina McDonald.....	2.00	
Ellen Sewell.....	1.72	
	<hr/>	\$60.97

## FUEL.

Paid L. B. Bodwell & Co., coal.....	\$31.62
J. M. Clark, 6 tons coal.....	34.50
Warren M. Davis, 62 $\frac{1}{2}$ cords wood.....	110.03

Paid Petterson & Lindquist, 1,700	
lbs. coal.....	\$4.50
D. M. Poore, coal.....	38.72
E. V. Turcotte, 28 tons, 1,900	
lbs. coal.....	154.89
	<hr/>
	\$374.26

## CLOTHING AND DRY GOODS.

Paid Beauchemin & Quirin, shoes,	
rubbers, etc.....	\$28.08
Clark & Estey, buttons, hose,	
hats, etc.....	24.15
Cushman & Hardy Co., cloth-	
ing.....	39.36
G. W. Dodge, boots and shoes	44.95
W. P. Farmer, boots and	
shoes.....	17.10
Patrick Kean, shirting, flan-	
nel, etc.....	19.83
Frank P. Kimball, clothing..	29.15
Lightbody & Burbank, boots	
and shoes.....	5.35
Manchester One Price Cloth-	
ing Co., clothing.....	29.25
H. M. Moody, shirts, hats, suit	27.70
Miville & Deschenes, cotton,	
print, handkerchiefs, etc...	32.06
Plumer & Holton, 48 mittens.	10.00
Joseph Quirin, boots and	
shoes.....	8.40
John Robbie Co., dry goods..	13.68
Wingate & Gould, boots and	
shoes.....	2.65
Weston & Hill Co., cambric,	
napkins, print, towels, com-	
forters, pins, needles, crash	94.21
	<hr/>
	\$425.92

## GROCERIES AND PROVISIONS.

Paid Annis Flour & Grain Co.....	\$435.66
Bartlett & Thompson.....	16.44
Barlow & Nye.....	113.75
F. J. Bixby.....	6.70
Clark & Robinson.....	32.00
C. E. Cox.....	16.32
Daniels-Cornell Co.....	46.77
Dodge & Laing.....	57.75
C. H. Durgin.....	5.23
T. F. Fifield.....	17.86
A. L. Gadbois.....	7.40
A. G. Grenier.....	7.26
W. D. Ladd & Co.....	8.57
Lindquist Brothers.....	7.50
Manchester Beef Co.....	12.28
Manchester Provision Co....	147.19
Horace Marshall.....	19.36
McQuade's Market.....	26.00
M. M. McQuade.....	32.29
Edward F. Murray.....	7.73
E. S. Newton.....	42.34
Henry W. Parker.....	201.79
Parnell Brothers.....	209.94
E. W. Perkins.....	22.74
W. E. Prescott.....	7.50
D. M. Poore & Son.....	24.57
Public Market & Packing Co.	11.60
Fred Ray.....	2.25
L. P. Reynolds.....	6.72
Tom Robinson.....	67.84
W. J. Starr.....	7.90
R. G. Sullivan.....	12.32
William Schonland.....	21.60
Summer-Street Market.....	37.69

Paid E. M. Slayton.....	\$24.79	
J. E. Towle & Co.....	13.59	
J. O. Turcotte.....	28.35	
B. F. Welch.....	41.13	
J. H. Wiggin & Co.....	33.26	
M. R. Wiggin.....	1.75	
	<hr/>	\$1,843.73

## FURNITURE AND KITCHEN UTENSILS.

Paid Clark M. Bailey, mop-waste, chimneys, burners, can-rub- bers, etc.....	\$17.63	
The Daniels-Cornell Co., soap and pails.....	15.87	
H. B. Fairbanks, tables, chairs.....	12.80	
R. K. Horne, crockery and tinware.....	8.59	
Paid C. A. Hoitt & Co.:		
1 mirror.....	4.50	
1 lounge.....	7.50	
12 chairs.....	5.00	
1 bed and spring.....	10.00	
Crockery.....	4.15	
Paid Kimball & Hobbs, matting...	1.88	
W. D. Ladd & Co., 1 gross steel knives and forks.....	3.00	
F. E. Nelson, crockery.....	2.17	
C. A. Trefethen, 1 clock.....	3.75	
	<hr/>	\$96.84

## MEDICINE, MEDICAL SERVICES.

Paid Charles M. Bailey, V. S., 1 visit.....	\$1.00
George M. Davis, M. D., med- ical attendance.....	1.50

Paid A. L. Dodge, V. S., visits and medicine.....	\$10.75	
Charles Harvey, medicine...	4.25	
J. J. Holland, medicine.....	5.50	
T. G. Ostle, V. S., visits and medicine.....	5.00	
E. C. Smith, medicines.....	14.15	
F. H. Thurston, medicine....	14.78	
C. H. Williams, medicines....	7.32	
	<hr/>	\$64.25

## BLACKSMITHING, HARNESESSES, ETC.

Paid The Fred L. Allen Co., repair- ing harnesses.....	\$13.05	
J. M. Brouillette, shoeing horses.....	86.20	
Thomas Hickey, shoeing horses.....	10.25	
Paid John F. Kerwin:		
Harness.....	25.00	
Harness supplies.....	12.10	
Paid N. J. Whalen, harness sup- plies and repairs.....	28.50	
	<hr/>	\$175.10

## CARRIAGE AND CARRIAGE REPAIRS.

Paid Couch & McDonald, carriage repairs.....	\$28.30	
J. B. McCrillis & Son, car- riage repairs.....	11.43	
Sanborn Carriage Co., repairs	39.10	
	<hr/>	\$78.83

## HAY, GRAIN, AND OTHER FEED.

Paid Adams Brothers.....	\$134.41
Annis Flour & Grain Co.....	355.31
Freeman & Merrill.....	75.33

Paid John F. Kerwin.....	\$3.75	
Clarence R. Merrill.....	61.85	
W. F. Merrill.....	14.30	
Partridge Brothers.....	15.00	
	<hr/>	\$659.95

## HARDWARE, FERTILIZERS, SEEDS, ETC.

Paid Adams Brothers.....	\$37.85	
J. J. H. Gregory.....	9.31	
Manchester Hardware Co....	28.05	
John B. Varick Co.....	289.44	
B. F. Welch.....	12.75	
	<hr/>	\$377.40

## INSURANCE.

Paid John Dowst, premium on policy No. 29,974.....	\$17.50	
A. Elliott & Co., premium on policies.....	55.42	
John A. Sheehan, premium on policies.....	70.00	
Richardson & Goggin, premium on policies.....	52.50	
	<hr/>	\$195.42

## PRINTING, STATIONERY, TELEPHONE.

Paid E. R. Coburn Co., stationery..	\$1.10	
W. P. Goodman, stationery..	2.09	
Paid The Nate Kellogg Co., printing:		
500 envelopes.....	2.00	
200 invitations and menus.....	5.00	
Paid N. E. Telephone & Telegraph Co., use of telephone.....	44.45	
	<hr/>	\$54.64

## REPAIRS AND IMPROVEMENTS.

Paid J. J. Abbott, paint, paper, etc.	\$20.93	
F. W. Blood Roofing Co., repairing tea-kettle.....	.30	
J. R. Carr & Co., lead and gilding.....	6.25	
Connor Brothers, plumbing material and labor, changing pipes, repairing boiler, etc.....	225.88	
W. H. Drury, assignee for J. P. Slattery, repairing clock	1.00	
C. I. Earl, repairing sewing-machine.....	3.00	
Paid S. C. Forsaith Machine Co.:		
Fence boards, etc.....	3.04	
Lumber and shingles.....	21.78	
Paid B. Garland, labor on fence....	6.75	
Peter Harris, keys, etc.....	1.35	
The Head & Dowst Co., lumber and labor.....	51.03	
J. Hodge, repairing door....	1.25	
J. B. Huntley, plumbing repairs.....	5.73	
Kimball & Hobbs, shoemakers' supplies.....	18.36	
T. A. Lane Co., material and labor.....	23.79	
Clemens Langer, linings for range.....	5.50	
Pike & Heald Co., plumbing repairs.....	16.73	
	<hr/>	\$412.67



## SUNDRIES.

Paid American Express Co., ex-	
press.....	\$1.00
Boston & Maine R. R., freight	1.00
J. E. Buerk, 500 dials.....	1.75
L. B. Bodwell & Co., cutting	
ice.....	6.00
Porter Blanchard's Sons Co.,	
dasher for churn.....	1.00
Cavanaugh Brothers, 2 horses	250.00
The John B. Clarke Co., ad-	
vertising.....	.30
Allen N. Clapp, kerosene....	20.06
P. Donovan, Jr., use of hacks.	45.00
J. G. Ellinwood, 12 photo-	
graphs of farm.....	6.00
M. D. Fife & Co., machine	
needles.....	.90
W. H. Griffin, grinding corn..	12.10
P. Harrington, 1 barrel.....	1.25
George Hook, castrating pigs.	12.00
Kimball & Hobbs, hose, noz-	
zle, couplings.....	7.15
C. W. Lerner & Co., disinfect-	
ants.....	53.40
Paid E. G. Libbey:	
Postage.....	2.50
Daily Mirror.....	6.00
Paid Manchester Slaughtering &	
Rendering Co., dressing	
hogs.....	2.50
Manchester Water-Works,	
use of water.....	133.95
J. T. O'Dowd, 4 live geese....	4.50
J. L. Pendexter, 2 pigs.....	15.00

## Paid pay-roll division No. 2:

January.....	\$5.50	
March.....	10.37	
April.....	2.75	
Paid O. G. Reed, use of hacks.....	20.00	
J. H. Reynolds, 1 barrel.....	1.00	
Harrison Rowe, pasturing cattle.....	25.00	
Sampson, Murdock & Co., 1 directory.....	2.00	
		<u>\$649.98</u>
Total expenditures.....		<u><u>\$8,463.89</u></u>

## Indigent Soldiers.

Appropriation.....	<u><u>\$450.00</u></u>
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## EXPENDITURES.

## GROCERIES.

Paid McQuade's Market.....	\$12.00	
D. M. Poore & Son.....	96.00	
		<u>\$108.00</u>

## FUEL.

Paid C. E. Pollard.....	\$24.00	
D. M. Poore.....	28.00	
		<u>\$52.00</u>

## BOARD AND CARE.

Paid Ellen McGrath.....	\$96.00
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## MEDICINES.

Paid E. C. Smith.....	\$29.85
Total expenditures.....	\$285.85
Transferred to reserved fund.....	164.15
	<u>\$450.00</u>

## Women's Aid and Relief Hospital.

Appropriation.....	<u>\$300.00</u>
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## EXPENDITURES.

Paid Women's Aid and Relief Hospital, appropriation for free beds.....	<u>\$300.00</u>
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## Free Beds, Elliot Hospital.

Appropriation.....	<u>\$300.00</u>
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## EXPENDITURES.

Paid Elliot Hospital, appropriation for free beds.....	<u>\$300.00</u>
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## Emergency Ward, Elliot Hospital.

Appropriation.....	<u>\$300.00</u>
Paid Cora M. Dearborn, treasurer, amount appropriated.....	<u>\$300.00</u>

## Sacred Heart Hospital.

Appropriation.....	<u>\$300.00</u>
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## EXPENDITURES.

Paid Sacred Heart Hospital, amount appropriated.....	\$300.00
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Notre Dame de Lourdes Hospital.

Appropriation.....	\$300.00
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## EXPENDITURES.

Paid Notre Dame de Lourdes Hospital, amount appropriated.....	\$300.00
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Militia.

Appropriation.....	\$800.00
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## EXPENDITURES.

Paid Amoskeag Veterans.....	\$100.00
Co. C, First Regiment N. H.	
N. G.....	100.00
Co. F, First Regiment N. H.	
N. G.....	100.00
Co. H, First Regiment N. H.	
N. G.....	100.00
Co. I, First Regiment N. H.	
N. G.....	100.00
First Regiment Band.....	100.00
Manchester Cadets.....	100.00
Manchester War Veterans...	100.00
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	\$800.00

**Décoration of Soldiers' Graves.**

Appropriation .....	\$400.00	
Transferred from reserved fund...	7.47	
	<hr/>	<u>\$407.47</u>

**EXPENDITURES.**

Paid The Head & Dowst Co., labor.	\$7.68	
Louis Bell Post, No. 3, G. A. R., expenses incurred Me- morial day.....	350.67	
pay-roll, commons, June....	49.12	
	<hr/>	<u>\$407.47</u>

**Band Concerts.**

Appropriation .....	\$300.00
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**EXPENDITURES.**

Paid Manchester City Band.....	\$150.00	
Manchester Military Band...	150.00	
	<hr/>	<u>\$300.00</u>

**Semi-Centennial Celebration.**

Appropriation .....	\$2,000.00
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**EXPENDITURES.**

Paid Herbert W. Eastman, treasurer.....	\$2,000.00
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**Addition to Derryfield Park.**

Appropriation .....	\$8,000.00
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**EXPENDITURES.**

Transferred to appropriation for new school- house, West Manchester.....	\$8,000.00
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**Abatement of Taxes.**

Appropriation ..... \$3,000.00

**EXPENDITURES.**

Paid sundry persons on taxes abated..... \$1,183.96

Total expenditures..... 1,183.96

Transferred to reserved fund..... 1,816.04

\$3,000.00

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**State Tax.**

Appropriation ..... \$68,225.00

**EXPENDITURES.**

Paid Solon A. Carter, state treasurer..... \$68,225.00

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**County Tax.**

Appropriation ..... \$66,204.72

**EXPENDITURES.**

Paid Hillsborough county..... \$66,204.72

**Resolution Raising Money and Making Appropriations for the Year One Thousand Eight Hundred and Ninety-six.**

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the sum of one hundred thousand dollars (\$100,000) be borrowed for the use of the city for the following permanent municipal improvements, viz.:

Seventy-five thousand dollars (\$75,000) for new sewers; twenty thousand dollars (\$20,000) for new highways; and five thousand dollars (\$5,000) for the development and improvement of Derryfield and Stark parks; and that the joint standing committee on finance are hereby authorized to issue the bonds of the city for said amount of one hundred thousand dollars (\$100,000) dated April 1, 1896, and payable April 1, 1916, with interest coupons attached for the payment of interest semi-annually at four per cent; said bonds to be signed by the city treasurer and countersigned by the mayor, and said coupons to bear the facsimile signature of the mayor; said bonds to be sold to the highest responsible bidder upon a call issued by the joint standing committee on finance for bids.

*Resolved, further,* That the sum of five hundred and forty-five thousand three hundred and twenty-nine and seventy-two one hundredths dollars (\$545,329.72) be raised for the use of the city for the year one thousand eight hundred and ninety-six (1896) by tax on the polls and estates liable to be taxed thereon, which sum, together with the one hundred thousand dollars (\$100,000) to be borrowed as above provided, and with such unappropriated money as may be now in the city treasury, or may hereafter come into it, shall be appropriated as follows, viz.:

CENTRAL DEPARTMENT.

Interest .....	\$35,000.00
Reserved fund .....	20,000.00

City hall expenses .....	4,000.00
Printing and stationery .....	2,500.00
Incidental expenses .....	12,000.00
Mayor's incidentals .....	300.00
City officers' salaries .....	21,000.00
Sinking fund .....	15,000.00
Payment of funded debt .....	10,000.00
Auditor's department, salaries and expenses....	2,000.00

## STREET AND SEWER DEPARTMENT.

Board of street and park commissioners, salaries and expenses .....	\$4,000.00
Repairs of highways .....	19,000.00
Widening and straightening of Old Mammoth road .....	1,000.00
Building new highways .....	20,000.00
Land taken for new highways.....	5,000.00
Watering streets .....	5,000.00
Paving streets .....	6,000.00
Macadamizing streets .....	15,000.00
Macadamizing Central street east from Maple...	5,000.00
Grading for concrete .....	5,000.00
Scavenger teams .....	16,000.00
Street sweeping .....	3,000.00
Lighting streets .....	52,000.00
Repairs of bridges .....	4,000.00
City teams .....	6,000.00
Repairs of sewers and drains .....	5,000.00
New sewer, Christian brook to Beech street....	5,000.00
New sewer, River road, Clarke and Elm to Tren- ton street .....	15,000.00
New sewer, Silver street, Union to Wilson.....	15,000.00
Other new sewers .....	40,000.00
Removal of snow and ice.....	4,000.00



## ENGINEER'S DEPARTMENT.

Salaries and expenses .....	\$4,500.00
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## HEALTH DEPARTMENT.

Salaries and expenses .....	\$4,200.00
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## SCHOOL DEPARTMENT.

Repairs of schoolhouses .....	\$6,000.00
Fuel .....	6,500.00
Furniture and supplies .....	1,000.00
Books and stationery .....	100.00
Printing and advertising .....	300.00
Contingent expenses .....	1,600.00
Care of rooms .....	5,500.00
Evening schools .....	1,500.00
Teachers' salaries .....	74,000.00
Evening school, mechanical drawing.....	500.00
Free text-books .....	5,000.00
Manual training .....	1,500.00

## CITY LIBRARY.

Salaries and expenses .....	\$4,500.00
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## FIRE DEPARTMENT.

Salaries and general expenses .....	\$61,000.00
Fire-alarm telegraph .....	2,000.00
Hydrant service .....	16,800.00

## POLICE DEPARTMENT.

Salaries and expenses of commission and force..	\$36,000.00
Expenses of court .....	3,900.00
Care and maintenance of station.....	2,800.00
Patrol system, stable, and equipments.....	10,000.00

## PUBLIC BUILDINGS.

Repairs of buildings .....	\$6,000.00
Public bathhouses .....	2,500.00

## PUBLIC PLACES.

Care of commons .....	\$4,500.00
Care of Stark and Derryfield parks.....	5,000.00
Care of Pine Grove cemetery.....	8,500.00
Care of Valley cemetery.....	3,000.00
Care of Amoskeag cemetery.....	350.00
Purchase of addition to Derryfield park.....	8,000.00

## PATRIOTIC, CHARITABLE, AND PHILANTHROPIC.

Support of paupers off the city farm.....	\$10,500.00
Maintenance of city farm .....	8,000.00
Support of indigent soldiers .....	450.00
Bed for city patients, Women's Aid and Relief Hospital .....	300.00
Bed for city patients, Elliot Hospital.....	300.00
Bed for city patients, Sacred Heart Hospital....	300.00
Notre Dame des Lourdes Hospital.....	300.00
Support of city patients, Emergency Ward, Elliot Hospital .....	300.00
Decoration of soldiers' graves .....	400.00
Militia armories .....	800.00
Band concerts .....	300.00
Semi-centennial celebration .....	2,000.00

## TAXES.

Abatement of taxes .....	\$3,000.00
State taxes .....	68,225.00
County taxes .....	66,204.72

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\$810,229.72

Passed February 28, 1896.

## Some Laws and Decisions Relating to Exemptions from Taxation.

CONSTITUTION OF NEW HAMPSHIRE, ARTICLE 82, PAGE 38,  
PUBLIC STATUTES.

### ENCOURAGEMENT OF LITERATURE, ETC.

ARTICLE 82. "Knowledge and learning generally diffused through a community being essential to the preservation of a free government, and spreading the opportunities and advantages of education through the various parts of the country being highly conducive to promote this end, it shall be the duty of the legislators and magistrates, in all future periods of this government, to cherish the interest of literature and the sciences, and all seminaries and public schools; to encourage private and public institutions, rewards, and immunities for the promotion of agriculture, arts, sciences, commerce, trades, manufactures, and natural history of the country; to countenance and inculcate the principles of humanity and general benevolence, public and private charity, industry and economy, honesty and punctuality, sincerity, sobriety, and all social affections and generous sentiments among the people; *provided, nevertheless*, that no money raised by taxation shall ever be granted or applied for the use of schools or institutions of any religious sect or denomination."

### PUBLIC STATUTES, CHAPTER 55.

SECTION 2. "Real estate, whether improved or unimproved, and whether owned by residents or others, is liable to be taxed, except houses of public worship, twenty-five hundred dollars of the value of parsonages owned by religious societies and occupied by their pastors, schoolhouses, seminaries of learning, real estate of the United States, state, or town used for public purposes, and almshouses on county farms."

SECTION 11. "Towns may by vote exempt from taxation for a term not exceeding ten years any manufacturing establishment proposed to be erected or put in operation therein, and the capital to be used in operating the same, unless such establishment has been previously exempted from taxation by some town."

OPINION OF THE SUPREME COURT.

58 N. H. Rep. page 623. "The exemption in each case is limited to ten years. A perpetual alienation of the whole power of taxation would be the destruction of government; and the dangerous tendency of legislation suspending any part of that power, for any period, is manifest. *P. Bank v. Billings*, 4 Pet. 514, 561. So long as the existing laws remain unrepealed, and the constitutional construction heretofore adopted remains unchanged, contracts hereafter made under these laws and that construction will be valid. If the legislature for any reason wish to prevent the making of any more such contracts, their object can be accomplished by a repeal of the laws authorizing them."

Hospitals, etc., are exempt from taxation in their respective charters as "being of the nature of a public charity," as follows:

Gale Home for Aged and Destitute Women, N. H. Laws of 1889, chapter 199.

Elliot Hospital, N. H. Laws of 1881, chapter 178.

Manchester Women's Aid and Relief Society, organized in January, 1875, N. H. Laws, 1891, chapter 283.

Orphanage and Home for Old Ladies (Catholic) on Hanover street, N. H. Laws, 1883, chapter 56.

**Schedule of Property used for Religious, Charitable, and Educational Purposes, and Exempt from Taxation by Law, not including that Owned by the City of Manchester.**

Convent, Sisters Jesus Mary, French Catholic;  
East Spruce street, near Beech:

Building .....	\$10,000.00	
13,000 square feet of land.....	2,600.00	
		<hr/> \$12,600.00

Convent, Sisters of Mercy, Catholic; 415 Union  
street, corner Laurel:

Building .....	\$30,000.00	
12,600 square feet of land.....	6,300.00	
		<hr/> \$36,300.00

Mount St. Mary's Academy, Catholic; from con-  
vent lot east to Beech street:

Building .....	\$25,000.00	
31,500 square feet of land.....	9,450.00	
		<hr/> \$34,450.00

Lot south side of Laurel street, corner Union  
street, Catholic; McDonald school:

Building .....	\$35,000.00	
10,800 square feet of land.....	5,000.00	
		<hr/> \$40,000.00

Hospital of the Sacred Heart and Old Ladies'  
Home, Catholic; Amherst and Hanover streets:

Building .....	\$14,000.00	
40,500 square feet of land.....	30,375.00	
		<hr/> \$44,375.00

St Patrick's Orphan Asylums, Catholic; 184 Han-  
over street:

Building .....	\$47,000.00	
40,500 square feet of land.....	40,500.00	
		<hr/> \$87,500.00

St. Joseph's High School, Catholic; Lowell street,  
Corner of Birch:

Building .....	\$12,000.00	
8,000 square feet of land.....	8,000.00	
	<hr/>	\$20,000.00

Union-street school, Catholic; corner Union and  
Laurel streets:

Building .....	\$4,000.00	
5,000 square feet of land.....	2,500.00	
	<hr/>	\$6,500.00

St. Agnes' school, Catholic; corner Cedar and Pine  
streets:

Building .....	\$12,000.00	
20,000 square feet of land.....	3,200.00	
	<hr/>	\$15,200.00

St. Joseph's school for girls, Catholic; corner Pine  
and Lowell streets:

Building .....	\$10,000.00	
Land included in cathedral lot. ....		\$10,000.00

Convent of Holy Angels, French Catholic; Beau-  
port street, corner Wayne, West Manchester:

Building .....	\$15,000.00	
22,500 square feet of land.....	4,500.00	
	<hr/>	\$19,500.00

Orphanage school, Beauport, Wayne, and Putnam  
streets; French Catholic:

Building .....	\$25,000.00	
30,000 square feet of land....	6,000.00	
	<hr/>	\$31,000.00

St. Augustine's academy, French Catholic; corner  
Beech and Spruce streets:

Building .....	\$8,000.00	
15,000 square feet of land.....	4,500.00	
	<hr/>	\$12,500.00

St. Mary's parochial school, French Catholic; corner Wayne and Cartier streets:

Building .....	\$12,000.00	
25,000 square feet of land.....	2,000.00	
		<u>\$14,000.00</u>

Residence priest St. Augustine's church, French Catholic; No. 383 Beech street:

Building .....	\$6,000.00	
7,500 square feet of land.....	1,875.00	
		<u>\$2,500.00</u>
	\$7,875.00	

Orphan children's school, parish St. Augustine; 251, 253 Lake avenue:

Building .....	\$12,000.00	
10,000 square feet of land.....	5,000.00	
		<u>\$17,000.00</u>

Residence priest St. Anne's church, Catholic; No. 231 Merrimack street:

Building .....	\$5,000.00	
8,820 square feet of land.....	2,646.00	
		<u>\$2,500.00</u>
	\$7,646.00	

Residence Catholic bishop; No. 145 Lowell street:

Building .....	\$40,000.00	
24,000 square feet of land.....	12,000.00	
		<u>\$2,500.00</u>
	\$52,000.00	

Residence priest St. George's church, French Catholic; Orange street, corner Pine:

Building .....	\$2,500.00	
10,000 square feet of land.....	4,000.00	
		<u>\$2,500.00</u>
	\$6,500.00	

Residence priest St. Mary's church, French Catholic; 376 Beauport street, West Manchester:

Building .....	\$2,500.00	
5,000 square feet of land.....	1,000.00	
		<u>\$2,500.00</u>

		\$3,500.00	
St. Anne's church, Catholic; Union street, corner Merrimack:			
Building .....	\$30,000.00		
10,180 square feet of land.....	5,090.00		
			<u>\$35,090.00</u>
St. Augustine's church, French Catholic; Beech street, corner East Spruce:			
Building .....	\$28,000.00		
13,000 square feet of land.....	3,250.00		
			<u>\$31,250.00</u>
St. Joseph's cathedral and chapel, Catholic; Pine street, corner Lowell:			
Building .....	\$70,000.00		
40,000 square feet of land.....	30,375.00		
			<u>\$100,375.00</u>
St. Mary's church, French Catholic; Beauport street, corner Wayne, West Manchester:			
Building .....	\$25,000.00		
70,000 square feet of land.....	14,000.00		
			<u>\$39,000.00</u>
St. Raphael's church and school, German Catholic; Third street, corner Ferry, West Manchester:			
Building .....	\$35,000.00		
8,000 square feet of land.....	3,400.00		
			<u>\$38,400.00</u>
St. George's church, French Catholic; Pine street, corner Orange:			
Building .....	\$75,000.00		
18,690 square feet of land.....	7,614.00		
			<u>\$82,614.00</u>
St. Patrick's church and school, Catholic; Kelly street, Cartier street, and Coolidge avenue:			
School building .....	\$20,000.00		
56,281 square feet of land.....	4,502.00		
			<u>\$24,502.00</u>



First Baptist church; Union street, corner Concord:

Building .....	\$28,000.00	
11,250 square feet of land.....	6,750.00	
		<u>\$34,750.00</u>

First Freewill Baptist church; Merrimack street, corner Chestnut:

Building .....	\$12,400.00	
12,600 square feet of land.....	12,600.00	
		<u>\$25,000.00</u>

Second Baptist church; Merrimack street, near Pine:

Building .....	\$9,000.00	
9,450 square feet of land.....	3,780.00	
		<u>\$12,780.00</u>

People's Baptist church; Chestnut street, corner Concord:

Building .....	\$8,000.00	
3,200 square feet of land.....	2,000.00	
		<u>\$10,000.00</u>

First Congregational church; Hanover street, corner Union:

Building .....	\$30,000.00	
43,200 square feet of land.....	34,560.00	
		<u>\$64,560.00</u>

Second Congregational church; Market street, corner Franklin:

Building .....	\$25,000.00	
19,000 square feet of land.....	19,000.00	
		<u>\$44,000.00</u>

Third Congregational church; South Main street, corner Milford, West Manchester:

Building .....	\$8,000.00	
23,000 square feet of land.....	3,000.00	
		<u>\$11,000.00</u>

First M. E. church; Valley street, corner Jewett:

Building .....	\$8,000.00	
11,400 square feet of land.....	1,000.00	
		<u>\$9,000.00</u>

St. Paul's M. E. church; Union street, corner Amherst:

Building .....	\$25,000.00	
10,010 square feet of land.....	6,000.00	
		<u>\$31,000.00</u>

Trinity M. E. church; School street:

Building .....	\$2,000.00	
12,176 square feet of land.....	3,000.00	
		<u>\$5,000.00</u>

St. James M. E. church; Pennacook street, corner Pine:

Building .....	\$9,000.00	
11,000 square feet of land.....	2,200.00	
		<u>\$11,200.00</u>

Grace church, Episcopal; Lowell street, corner Pine:

Building .....	\$20,000.00	
9,300 square feet of land.....	6,975.00	
		<u>\$26,975.00</u>

First Unitarian church; Concord street, corner Beech:

Building .....	\$24,000.00	
13,500 square feet of land.....	6,000.00	
		<u>\$30,000.00</u>

First Universalist church; Lowell street, near Elm:

Building .....	\$17,000.00	
10,000 square feet of land.....	15,000.00	
		<u>\$32,000.00</u>

Christian church, Protestant; Pine street, corner Merrimack:

Building .....	\$6,000.00	
9,000 square feet of land.....	6,700.00	
		<u>\$12,700.00</u>

First Presbyterian church, German; Second street, corner Bath, West Manchester:

Building .....	\$3,000.00	
10,000 square feet of land.....	2,500.00	
		<u>\$5,500.00</u>

Swedish Lutheran church, Protestant; Sagamore,  
corner Pine:

Building .....	\$7,500.00	
10,950 square feet of land.....	2,000.00	
	<hr/>	\$9,500.00

Swedish Evangelical Mission; Pine street, corner  
Orange:

Building .....	\$6,500.00	
Land .....	4,100.00	
	<hr/>	\$10,600.00

Swedish Baptist church; Arlington street, near  
Maple:

Building .....	\$5,000.00	
4,432 square feet of land.....	1,100.00	
	<hr/>	\$6,100.00

Second Advent church; Amherst street, between  
Pine and Union:

Building .....	\$5,100.00	
4,500 square feet of land.....	3,375.00	
	<hr/>	\$8,475.00

City Mission chapel, Protestant; Merrimack street,  
corner of Beech:

Building .....	\$7,000.00	
12,600 square feet of land.....	6,000.00	
	<hr/>	\$13,000.00

Westminster Presbyterian church; Brook street,  
corner Hazel:

Building .....	\$15,000.00	
10,000 square feet of land.....	2,500.00	
	<hr/>	\$17,500.00

South Manchester Union chapel, Protestant; Elm  
street, south:

Building .....	\$2,500.00	
10,747 square feet of land.....	1,000.00	
	<hr/>	\$3,500.00

Episcopal Mission church; North Main street, corner School, West Manchester:

Building .....	\$3,500.00	
19,412 square feet of land.....	4,000.00	
	<hr/>	\$7,500.00

Residence pastor St. Paul's M. E. church; Union street, near Amherst:

Building .....	\$3,000.00	
	<hr/>	\$2,500.00

Residence pastor First Congregational church; No. 590 Beech street, near Bridge:

Building .....	\$5,000.00	
8,100 square feet of land.....	2,400.00	
	<hr/>	\$2,500.00
		\$7,400.00

Residence pastor Grace Episcopal church; corner of Harrison and Union streets:

Building .....	\$6,000.00	
15,000 square feet of land.....	3,750.00	
	<hr/>	\$2,500.00
		\$9,750.00

German School Society; Third, Bath, and Ferry streets:

Building .....	\$1,500.00	
10,187 square feet of land.....	2,500.00	
	<hr/>	\$7,000.00

Elliot Hospital, Protestant; East Manchester:

Building .....	\$23,000.00	
Land .....	7,000.00	
	<hr/>	\$30,000.00

Elliot Hospital lot; Hanover street, corner Chestnut:

Building .....	\$3,000.00	
Land .....	13,000.00	
	<hr/>	\$16,000.00

## Elliot Hospital:

Land and buildings, Main street	\$4,000.00	
Land and building, Quincy street	2,500.00	
		<u>\$6,500.00</u>

Women's Aid and Relief Hospital; Pearl street,  
corner Beech:

Building .....	\$15,000.00	
57,530 square feet of land.....	10,000.00	
		<u>\$25,000.00</u>

## Manchester Children's Home; Webster street:

Building .....	\$20,000.00	
55,000 feet of land .....	2,500.00	
		<u>\$22,500.00</u>

Residence pastor Swedish Lutheran church; Saga-  
more street, corner Pine:

Building .....	\$3,000.00	
10,200 square feet of land.....	1,020.00	
		<u>\$2,500.00</u>
	<u>\$4,020.00</u>	

## Gale Home:

One half Manchester Bank block, Elm street.....	\$38,000.00	
One half Martin's block, Elm street .....	25,000.00	
Land and building, Pearl street, corner Ash .....	25,000.00	
		<u>\$88,000.00</u>

## EXEMPT FROM TAXATION.

Church property, Catholic.....	\$357,729.00	
Convent property, Catholic.....	68,400.00	
Parochial residences, Catholic...	12,500.00	
Parochial schools, Catholic.....	194,152.00	
Hospitals and other charitable institutions .....	131,875.00	
		<u>\$764,656.00</u>

Church property, Protestant.....	\$140,640.00	
Parochial residences, Protestant.	10,000.00	
Private school property, Protestant	7,000.00	
Hospitals and other charitable institutions .....	188,000.00	
	<hr/>	\$645,640.00

## TAXABLE.

Land and buildings, Catholic....	\$65,021.00	
Land and buildings, Protestant..	14,170.00	
	<hr/>	\$79,191.00
Total exempt and taxable.....		<hr/> \$1,489,487.00

SCHEDULE OF PROPERTY USED FOR MANUFACTURING PURPOSES EXEMPT BY LAW FROM  
TAXATION.

OWNER.	Occupant.	Location.	Goods manu- factured.	Exemption commenced.	Exemption ceases.	Unex- pired term.	Valuation.
Amoskeag Mfg. Co.....	Amoskeag Mfg. Co.....	Jefferson mill.....	Cotton.....	April 1, 1887	April 1, 1897	2 years.	\$1,000,000.00
Stark mills.....	Stark mills.....	Mill W. N. McGregor Bridge.....	".....	".....	".....	5 "	200,000.00
William W. Hubbard.....	William W. Hubbard.....	Land and building, Dean ave.....	Wood.....	Dec. 1, 1885	" 1, 1900	1 "	22,100.00
West Side Shoe Co.....	* Crafts & Green.....	Land and buildings, West Hancock.	Shoes.....	June 16, 1890	" 1, 1901	6 "	57,500.00
F. M. Hoyt & Co.....	* F. M. Hoyt & Co.....	1½ acres, land and building, 58,466 ft. land and factory, Valley and Wilson.....	".....	Oct. 6, 1891	" 1, 1902	7 "	20,700.00
Elliott Mfg. Co.....	† Elliott Mfg. Co.....	Stock and machinery.....	Silk.....	April 5, 1892	" 1, 1903	8 "	32,000.00
Kimball Carriage Co.....	† Kimball Carriage Co.....	Land and building, Silver and Lincoln	Carriages, etc.	" 1, 1890	" 1, 1900	5 "	32,000.00
Kennedy Land Co.....	Josselyn & Seavey.....	{ 1 acre land and building south of brewery.....	".....	Dec. 12, 1892	" 1, 1903	8 "	11,000.00
Rimmon Mfg. Co.....	Jennings & Stevens.....	{ Stock and machinery.....	Furniture.....	" 12, 1892	" 1, 1903	8 "	8,000.00
Dana & Provost.....	* Dana & Provost.....	Land and buildings, 20,000 feet, Kel- ley street.....	".....	April 1, 1893	" 1, 1903	8 "	6,000.00
Eaton Heights Shoe Co.....	".....	P. R. R.....	Wood.....	" 1, 1893	" 1, 1903	8 "	25,000.00
S. S. Manchester Bldg. Asso.	".....	Land and building.....	Shoes.....	June 5, 1894	June 5, 1904	9 "	20,000.00
Eureka Shoe Co.....	".....	{ Land and buildings, 75,000 feet, Lincoln and Silver streets.....	".....	Jan. 1, 1895	Jan. 1, 1905	9 "	30,000.00
Redman & Eaton Shoe Co.	".....	{ Land, buildings, machinery, and materials.....	".....	" 1, 1895	" 1, 1905	9 "	50,000.00
				Dec. 4, 1894	Dec. 4, 1904	9 "	35,000.00
							\$1,529,300.00

\* Stock and machinery taxable.

† Stock and machinery,—value not determined.

# TABULAR STATEMENT OF BONDED DEBT, CITY OF MANCHESTER, N. H., FROM JAN. 1 TO DEC. 31, 1896.

YEAR.	Six per cent to build water works.*	At four per cent, water works.†	At five per cent, water bonds.	At 4½ per cent, water bonds.	Five per cent, cemetery bonds.‡	\$70,000 issued Oct. 31, 1863. \$50,000 issued July 1, 1864. Six per cent, to fund debts.	Issued July 1, 1881, four per cent, to build McGregor bridge.	Issued April 1, 1885, 4 per cent, to fund debts.
1890	\$400,000	\$200,000	.....	.....	\$13,850	\$120,000	\$60,000	\$155,000
1891	400,000	200,000	.....	.....	18,850	120,000	60,000	155,000
1892	300,000	300,000	.....	.....	20,000	120,000	60,000	155,000
1893	300,000	300,000	\$100,000	\$100,000	26,000	120,000	60,000	155,000
1894	300,000	350,000	100,000	100,000	31,000	50,000	60,000	155,000
1895	200,000	500,000	100,000	100,000	36,250	.....	60,000	155,000
1896	200,000	500,000	100,000	100,000	42,250	.....	60,000	155,000

Four per cent improvement bonds	Four per cent schoolhouse bonds.	Four per cent Granite-street bridge bonds.	Amount of 6 per cent bonds due and paid.	Amount of six per cent bonds re-funded at four per cent.	Total amount of bonded debt Dec. 31, 1896.	Amount of 6 per cent city bonds on which interest has ceased, not yet presented for payment.	Amount of 6 per cent water bonds on which interest has ceased, not yet presented for payment.
.....	.....	.....	\$99,900	\$100,000	\$948,850	.....	\$100
.....	.....	.....	100	.....	953,850	.....	.....
.....	.....	.....	99,900	100,000	955,000	.....	100
\$100,000	.....	.....	65,500	.....	1,195,600	\$4,500	100
200,000	.....	.....	50,000	.....	1,296,000	.....	.....
300,000	\$20,000	.....	.....	100,000	1,571,250	.....	.....
400,000	230,000	\$130,000	.....	.....	1,917,250	.....	.....

\* \$400,000 water bonds, issued January 1, 1872; \$100,000 of these bonds re-funded January 1, 1887; \$100,000 re-funded January 1, 1892.

† \$200,000 water bonds, issued July 1, 1874; \$100,000 of these bonds re-funded July 1, 1890, and \$100,000 re-funded July 1, 1895.

‡ \$2,200 water bonds, issued in 1884, and other additional bonds each year.

The city guarantees the perpetual care of lots in the cemeteries. Bonds payable July 1, 1913.



REMARKS.—The city guarantees the perpetual care of lots in the cemeteries of the city to parties who pay \$100 and upward. There are \$42,250 in cemetery bonds, so called, not negotiable, in the hands of the city treasurer, which are included in the \$1,917,250.

Total amount of bonded debt, including cemetery bonds .....	\$1,917,250.00
Net indebtedness for water purposes.....	900,000.00

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Net debt after deducting water debt. \$1,017,250.00

As shown in the assessors' books for the year 1896 :

The assessed value of personal property, including poll tax.....	\$4,412,552.00
The assessed value of real estate.....	25,031,116.00

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Total value for taxation..... \$29,443,668.00

Tax rate, 1.86 per cent on a hundred.

Per cent of net indebtedness (excluding debt for water purposes) to assessed valuation...	3.777
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Per cent of net indebtedness (including debt for water purposes) to assessed valuation...	6.834
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Population, census of 1890.....	43,983
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Population, census of 1880.....	32,458
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Increase of population in ten years....	11,525
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Increase of population since 1890 (estimated).	14,000
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No issue of bonds has ever been contested.

The interest on the debt has always been promptly paid at maturity.

None of the bonds are stated specifically as being payable in gold.

None of the bonds can be called for redemption.

A sinking fund was established in 1893.

The power of the city to borrow money in relation to the water-works is limited to the sum of \$600,000 by section 6, chapter 70, New Hampshire Laws of 1871, entitled "An act to enable the city of Manchester to establish water-works," except as further extended an amount of \$300,000, by laws of 1891, chapter 26; and \$200,000, by laws of 1895, chapter 172.

## STATEMENT IN RELATION TO THE BONDED DEBT OF THE CITY OF MANCHESTER, N. H.

## BONDED DEBT.

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Date of issuance.	Description.	Number.	Denomination.	Amount.	Total.	Date when the principal is payable.	INTEREST.		
							Rate per cent.	When payable.	Where payable.
Dec. 16, 1885	Water bonds.	50	\$1,000	\$50,000	\$50,000	Dec. 16, 1915	4	Semi-annual.	At Suffolk Bank, Boston, Mass.
Oct. 1, 1894	"	50	1,000	50,000	50,000	Oct. 1, 1914	4	"	"
Nov. 1, 1893	"	100	1,000	100,000	100,000	Nov. 1, 1913	4½	"	"
Aug. 1, 1893	"	100	1,000	100,000	100,000	Aug. 1, 1913	5	"	"
Jan. 1, 1892	"	100	1,000	100,000	100,000	Jan. 1, 1912	4	"	"
Jan. 1, 1897	"	100	1,000	100,000	100,000	1, 1917	4	"	"
Re-funded {	"	60	100	6,000		1, 1902	6	"	At treasurer's office, Manchester, N. H.
Jan. 1, 1872	"	62	500	31,000		1, 1902	6	"	"
1, 1872	"	63	1,000	63,000		1, 1902	6	"	"
July 1, 1890	"	100	1,000	\$100,000	100,000	July 1, 1910	4	"	At Suffolk Bank, Boston, Mass.
Re-funded {	"	100	1,000	\$100,000	100,000	1, 1915	4	"	"
July 1, 1885	"	100	1,000	\$100,000	100,000	Jan. 1, 1907	4	"	"
Re-funded {	"	15	100	\$1,500		July 1, 1911	4	"	At treasurer's office, Manchester, N. H.
Jan. 1, 1887	"	39	500	19,500		1, 1911	4	"	"
Re-funded {	Bridge bonds.	33	1,000	33,000	60,000	1, 1911	4	"	"
July 1, 1881	"					{ \$25,000 July 1, 1897, '98, '99, 1900; }			
1, 1881	"					{ \$30,000 July 1, 1901. }			
1, 1896	"	130	1,000	\$130,000	130,000	Apr. 1, 1905	4	"	At Suffolk Bank, Boston, Mass.
April 1, 1885	City bonds.	50	1,000	\$50,000	50,000	1, 1907	4	"	"
1, 1885	"	50	1,000	50,000	50,000	1, 1909	4	"	"
1, 1885	"	50	1,000	50,000	50,000	1, 1911	4	"	"
1, 1885	"	5	1,000	5,000	5,000				
July 1, 1893	Imp. bonds.	100	1,000	\$100,000	100,000	Jan. 1, 1913	4	"	"
June 1, 1894	"	100	1,000	100,000	100,000	Apr. 1, 1914	4	"	"
April 1, 1895	"	100	1,000	100,000	100,000	1, 1915	4	"	"
1, 1896	"	100	1,000	100,000	100,000	1, 1916	4	"	"
July 1, 1895	School bonds.	120	1,000	\$110,000	110,000	{ \$10,000 July 1, 1897, and	4	"	"
1, 1895	"	80	1,000	80,000	80,000	{ \$10,000 annually thereafter }		"	"
1, 1896	"	40	1,000	40,000	40,000	July 1, 1916	4	"	"
					\$1,875,000				

## STATEMENT OF THE ANNUAL INTEREST CHARGE ON THE BONDED DEBT.

YEAR.	Six per ct. water bonds.	Four per ct. water bonds.	Four and a half and 5 per ct. water bonds.	Five per ct. ceme- tery bonds.	Six per ct. to fund debt.	Four per ct. to b'ld Mc- Gregor bridge.	Four per ct. to fund debt.	Four per ct. Imp. bonds.	Four per ct. school bonds and Granite bridge.	Total of annual interest.
1890....	\$27,000	\$6,000	.....	\$623.75	\$7,200	\$2,400	\$6,200	.....	.....	\$49,423.75
1891....	24,000	8,000	.....	813.92	7,200	2,400	6,200	.....	.....	48,613.92
1892....	18,000	12,000	.....	1,000.00	7,200	2,400	6,200	.....	.....	46,800.00
1893....	18,000	12,000	.....	1,041.66	7,200	2,400	6,200	.....	.....	46,841.66
1894....	18,000	14,000	\$9,500	1,550.00	.....	2,400	6,200	\$8,000	.....	59,650.00
1895....	18,000	14,000	9,500	1,812.50	.....	2,400	6,200	12,000	\$4,800*	68,712.50
1896....	12,000	20,000	9,500	2,112.50	.....	2,400	6,200	16,000	14,400†	82,612.50

## SUMMARY OF CITY DEBT.

Amount of bonded debt January 1, 1896.....	\$1,571,250.00
Amount of cemetery bonds issued in 1896....	6,000.00
Amount of Granite Street Bridge bonds issued in 1896 .....	130,000.00
Amount of improvement bonds issued in 1896	100,000.00
Amount of school bonds issued in 1896.....	120,000.00
Accrued interest on bonded debt.....	31,750.00
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	\$1,959,000.00
Amount of security note or bond ‡.....	\$100,000.00

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Total indebtedness December 31, 1896 \$2,059,000.00

\* This amount will be reduced \$400 annually by payment of principal.

† This amount will be reduced \$1,400 annually by payment of principal.

‡ This loan was made by authority of resolution passed January 26, 1894, and renewed March 3, 1896.

## BONDED DEBT.

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## AVAILABLE ASSETS.

Net cash on hand January 1, 1897.....	\$160,863.04
Taxes uncollected, list of 1896.....	56,758.63
Stock of Suncook Valley Railroad, estimated value .....	14,500.00
Sinking fund .....	96,401.50
	<hr/>
	\$328,523.17

## BONDED DEBT.

Total net indebtedness January 1, 1897.....	\$1,730,476.83
Total net indebtedness January 1, 1896.....	1,501,611.04
	<hr/>
Increase .....	\$288,865.79

PUBLIC BUILDINGS OCCUPIED IN PART BY PRIVATE PARTIES.  
BATTERY BUILDING.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free.	Manchester street.	First Light Battery	2 rooms.	First N. H. L. Battery.	Battery occupies first and second floor and basement. Guards occupy third floor. Ward meetings are held in battery room, on second floor.
"	"	Emmet Guards.	1 room.	Emmet Guards.	

WARD FIVE WARDROOM.

Annual rent.	Location.	Occupants.	Rooms.	Command.	Remarks.
Free.	Lake avenue.	Sheridan Guards.	1 room.	Sheridan Guards.	Ward meetings held in building.

**Valuation of Real Estate owned by the City.**

High School, Beech street, corner Lowell :

Building (unfinished) .....	\$100,000.00	
59,400 square feet of land.....	17,820.00	
	<hr/>	\$117,820.00

Franklin-street school, Franklin street, corner Pleasant :

Building .....	\$16,000.00	
19,200 square feet of land.....	19,200.00	
	<hr/>	\$35,200.00

Spring-street school, Spring street :

Building .....	\$13,000.00	
13,600 square feet of land.....	13,600.00	
	<hr/>	\$26,600.00

Lincoln-street school, Lincoln street, corner Merimack :

Building .....	\$45,000.00	
40,000 square feet of land.....	8,000.00	
	<hr/>	\$53,000.00

Ash-street school, Ash street, corner Bridge :

Building .....	\$50,000.00	
57,537 square feet of land.....	17,262.00	
	<hr/>	\$67,262.00

Main-street school, North Main street, West Manchester :

Building .....	\$6,000.00	
40,293.4 square feet of land....	10,073.00	
	<hr/>	\$16,073.00

Webster-street school, Webster street :

Building .....	\$39,000.00	
55,714 $\frac{3}{4}$ square feet of land....	13,928.00	
	<hr/>	\$52,928.00

Blodget-street school, Blodget street:

Building .....	\$1,500.00	
9,000 square feet of land .....	3,600.00	
	<hr/>	\$5,100.00

Lowell-street school, Lowell street, corner Chestnut :

Building .....	\$1,000.00	
9,000 square feet of land.....	9,000.00	
		<hr/> \$10,000.00

Merrimack-street school, Merrimack street, corner Union :

Building .....	\$15,000.00	
12,600 square feet of land.....	6,300.00	
		<hr/> \$21,300.00

South Main-street school, South Main street, West Manchester :

Building .....	\$20,000.00	
13,650 square feet of land....	2,047.00	
		<hr/> \$22,047.00

Bakersville school, Elm street, south :

Building .....	\$10,000.00	
24,184 square feet of land.....	3,628.00	
		<hr/> \$13,628.00

Stark District school, River road, north :

Building .....	\$1,000.00	
43,560 square feet of land.....	100.00	
		<hr/> \$1,100.00

Amoskeag school, Front street, Amoskeag :

Building .....	\$1,500.00	
6,000 square feet of land.....	1,000.00	
		<hr/> \$2,500.00

Rimmon school, corner Amory and Dubuque streets :

Building .....	\$17,400.00	
16,600 square feet of land....	2,490.00	
		<hr/> \$19,890.00

Goffe's Falls school, Goffe's Falls :

Building .....	\$4,000.00	
47,916 square feet of land ....	250.00	
		<hr/> \$4,250.00



Harvey District school, Nutt road :		
Building .....	\$2,000.00	
21,780 square feet of land.....	100.00	
	<hr/>	\$2,100.00
Webster Mills school, Webster Mills :		
Building .....	\$400.00	
5,445 square feet of land .....	100.00	
	<hr/>	\$500.00
Old Hallsville school, East Manchester :		
Building .....	\$500.00	
30,075 square feet of land.....	3,008.00	
	<hr/>	\$3,508.00
Youngsville school, Youngsville :		
Building .....	\$500.00	
51,228 square feet of land.....	100.00	
	<hr/>	\$600.00
Mosquito Pond school, Mosquito Pond :		
Building .....	\$400.00	
10,890 square feet of land ....	100.00	
	<hr/>	\$500.00
Pearl-street school :		
Building .....	\$18,700.00	
Land .....	3,200.00	
	<hr/>	\$21,900.00
Varney school, Bowman street, corner Mast, West Manchester :		
Building .....	\$43,750.00	
Land .....	6,700.00	
	<hr/>	\$50,450.00
New Hallsville school, Jewett street, corner Young, East Manchester :		
Building .....	\$29,800.00	
44,000 square feet of land.....	3,300.00	
	<hr/>	\$33,100.00
Straw school, Chestnut street, corner Harrison:		
Building .....	\$30,000.00	
32,400 square feet of land.....	16,200.00	
	<hr/>	\$46,200.00

New Wilson school, Wilson, Cedar, and Auburn streets:

Building .....	\$30,000.00	
40,000 square feet of land.....	5,000.00	
	<hr/>	\$35,000.00
		<hr/>
		\$662,556.00

#### ENGINE-HOUSES.

Engine-house and stable, Central station, Vine street:

Building .....	\$31,800.00	
21,718.86 square feet of land...	25,438.00	
	<hr/>	\$57,238.00

North Main-street engine-house, North Main street, West Manchester:

Building .....	\$18,000.00	
11,819 square feet of land.....	2,955.00	
	<hr/>	\$20,955.00

Webster-street engine-house, Webster street, corner Chestnut:

Building .....	\$12,000.00	
8,510 square feet of land.....	2,180.00	
	<hr/>	\$14,180.00

Merrimack engine-house, Lake avenue:

Building .....	\$15,000.00	
10,000 square feet of land.....	3,000.00	
	<hr/>	\$18,000.00

Hosehouse and cottage, Maple street, corner East High:

Building .....	\$3,000.00	
18,330 square feet of land.....	3,666.00	
	<hr/>	\$6,666.00

Engine-house and wardroom, ward 9, Rimmon and Amory streets, West Manchester:

Building .....	\$22,755.00	
6,000 square feet of land.....	870.00	
	<hr/>	\$23,625.00

## South Manchester hosehouse:

Building .....	\$4,200.00	
4,278 square feet of land.....	684.48	
	<hr/>	\$4,884.48
		<hr/>
		\$147,548.48

## OTHER PUBLIC BUILDINGS AND LOTS.

## City library, Dean avenue, corner Franklin street:

Building .....	\$35,000.00	
15,000 square feet of land....	30,000.00	
	<hr/>	\$65,000.00

## City hall, Elm street, corner Market:

Building .....	\$20,000.00	
100,000 square feet of land...	150,000.00	
	<hr/>	\$170,000.00

## City farm, Mammoth road:

Building .....	\$5,000.00	
46.66 acres, west Mammoth road	70,000.00	
81.55 acres, East Mammoth road	65,240.00	
	<hr/>	\$140,240.00

## Court house, Franklin street, corner West Merimack:

Building .....	\$20,000.00	
19,000 square feet of land....	57,000.00	
	<hr/>	\$77,000.00

## Battery building, Manchester street:

Building .....	\$13,000.00	
3,400 square feet of land.....	5,100.00	
	<hr/>	\$18,100.00

## Police station, Manchester street, corner Chestnut:

Building .....	\$40,000.00	
7,500 square feet of land.....	15,000.00	
	<hr/>	\$55,000.00

Slayton lot, Manchester street:		
Police patrol stable .....	\$4,000.00	
Building .....	300.00	
2,908 square feet of land.....	4,700.00	
		<u>\$9,000.00</u>
City stable and other buildings, Franklin street:		
Building .....	\$15,950.00	
44,656 square feet of land....	89,312.00	
		<u>\$105,262.00</u>
City stable, district No. 10.....		\$1,000.00
City scales, Franklin street:		
Building .....		\$300.00
Gravel lots, Goffstown:		
2 acres .....		\$400.00
Police station, Clinton street, West Manchester:		
Building .....	\$3,500.00	
3,790 square feet of land.....	1,000.00	
		<u>\$4,500.00</u>
Gravel lot, district No. 10, bought of Brooks & Brock (city has right to remove gravel until August 25, 1903):		
1 1-3 acres .....	\$500.00	
Ward 5 wardroom, Lake avenue:		
Building .....	\$4,500.00	
Land .....	1,000.00	
		<u>\$5,500.00</u>
		<u>\$651,802.00</u>

## PERSONAL PROPERTY OWNED BY THE CITY.

Property in care city engineer.....	\$1,149.00
in care chief engineer fire department	108,064.50
in care street and park commission..	25,761.02
in care superintendent of schools.....	36,755.00
in care city messenger.....	3,000.00
in care city marshal and janitor.....	7,250.00

VALUATION OF REAL ESTATE OWNED BY THE CITY. 725

Property in care superintendent of city farm....	\$12,174.77
in care trustees city library.....	30,000.00
in care superintendent of Pine Grove cemetery .....	248.35
in care superintendent Valley cemetery	106.00
Stock in Suncook Valley Railroad, in care of city treasurer .....	50,000.00
Personal property in care city weigher.....	1,000.00
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	\$275,508.64
Uncollected taxes in 1895.....	\$4,925.13
Uncollected taxes in 1896.....	56,758.63
Net cash in the treasury, December 31, 1896....	160,863.04
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	\$222,546.80

OTHER REAL AND PERSONAL ESTATE OWNED BY THE CITY.

Soldiers' monument .....	\$25,000.00
Permanent inclosure of commons.....	10,200.00
Amoskeag bridge over Merrimack river.....	25,000.00
Fountains and water-troughs on streets and commons .....	3,600.00
Two city tombs .....	10,000.00
McGregor bridge .....	90,000.00
Granite bridge .....	130,000.00
South Main-street bridge, over Piscataquog river	28,450.00
Second-street bridge, over Piscataquog river....	52,036.06
Print-Works bridge, on Granite, over lower canal	5,000.00
Two bridges in highway district No. 9.....	2,000.00
One bridge at Goffe's Falls. ....	1,000.00
Expended on construction of sewers.....	585,103.73
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	\$967,389.79

PARKS AND CEMETERIES.

Valley cemetery, 19.7 acres.....	\$200,000.00
Pine Grove cemetery, about 96 acres.....	46,700.00

Amoskeag cemetery, 1.23 acres.....	\$4,340.00
Stark park, 28 acres .....	9,000.00
Derryfield park, 76 acres.....	25,000.00
Concord common, 4.48 acres.....	200,000.00
Tremont common, 2.25 acres.....	40,000.00
Hanover common, 3 acres.....	100,000.00
Park common, 3.49 acres.....	60,000.00
Merrimack common, 5.89 acres.....	200,000.00
Wagner's park, 9.85 acres.....	12,000.00
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	\$897,040.00

## WATER-WORKS.

Real estate and personal property of water-works, at cost price .....	\$1,413,816.91
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## RECAPITULATION.

Real estate owned by the city, schoolhouses....	\$662,556.00
Real estate owned by the city.....	651,802.00
Real estate owned by the city, engine houses..	145,548.48
Water-works at cost price .....	1,413,816.91
Personal property owned by the city.....	275,508.64
Uncollected taxes and cash.....	222,546.80
Other real and personal property.....	967,389.79
Parks and cemeteries .....	897,040.00
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	\$5,236,208.62

## PROPERTY ACCOUNT.

Inventory of assets, December 31, 1896.....	\$5,236,208.62
Inventory of assets, December 31, 1895.....	4,863,206.55
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Gain in valuation .....	\$373,002.07

**Auditor's Office.**

City hall building. Open from 8 to 12 A. M., 1.30 to 5 P. M.; 7 to 9 P. M. on Thursday.

In every bill presented to the city auditor for his approval, the following points will be considered and passed upon.

1. Is the subject matter of the bill under examination within the scope of the powers conferred by the legislature on the city government?

2. Is the bill certified by the party legally authorized to make the contract, or cause the expenditure to be made?

3. Has any appropriation been made to meet the expenditure, and is there a balance unexpended sufficient to pay this bill?

4. Are the number of articles in the bill, or the measurements either of dimensions, quantities, or weights correctly and fully stated, and is the proof of the delivery to the city of the whole amount charged sufficient?

5. Is the price charged a fair market price, or is it so largely in excess as to require the attention of the city councils to be called to the same?

6. Is the bill written in a fair legible hand, correctly cast, and on paper of sufficient length and width to admit of its proper backing and filing?

7. If the bill is in part payment of a contract, the date and the total amount of the contract, the amount already paid, the amount of the work not yet completed, and the per cent retained, if any, should be stated in the bill.

8. Any other inquiries in matters of law and fact which affect the question of indebtedness before the auditor.

9. Approval, rejection, or suspension for further information or correction as the circumstances of each case may require.

COURT DECISIONS, LEGAL POINTS AND RULES, RELATING TO THE APPROVAL OR DISAPPROVAL OF CLAIMS AGAINST THE CITY.

No bill or account shall be paid by the city treasurer until the auditor has approved it as correct.

Public trusts or powers devolved by law or charter on the city councils cannot be delegated to others. *Dillon's Municipal Corporations*, section 96, volume 1.

No member of either branch [of the city councils], except the mayor, shall receive any compensation for his services, or shall hold any office or agency created during his continuance in office. *General Laws*, chapter 46, section 13.

The executive powers of the city, except where vested in the mayor, shall be exercised by the mayor and aldermen. *General Laws*, chapter 46, section 14.

The mayor and aldermen have all the powers and authority of selectmen of towns unless it is otherwise provided by law. *General Laws*, chapter 46, section 14.

Joint standing committees have advisory powers only; they cannot legally be endowed with executive or legislative powers by ordinance or resolution of the city councils, as no by-law or ordinance shall be repugnant to the constitution or laws of the state.

No member of either branch of the city councils can enter into any verbal or written contract to furnish supplies to, or do any work for the city. Any firm of which a member is also a member of the city councils is included in this prohibition.

No city official, or department, or board of officials having legal power to expend money for the benefit of the city, can purchase of or contract with themselves, with any one of the board, or with any firm of which one of said officials is a member. *Dillon's Municipal Corporations*, volume 1, page 436, section 444.

Every bill against the city shall specify the particular appropriation to which the same should be charged, and the moneys paid will be charged to such appropriations only.



He who is intrusted with the business of others cannot be allowed to make such business a source of profit to himself.

All orders passed by the city councils authorizing a ministerial act to be performed by its agent or agents must be strictly construed, and the act to be done must be specifically stated.

The board of engineers have the authority of firewards. (*General Laws*, chapter 106, section 11.) They have no power conferred upon them by law or ordinance to purchase new apparatus of any kind.

The joint standing committee on fire department have advisory powers only.

The laws and ordinances require the city auditor to withhold his signature from all bills against any appropriation where the amount of the appropriation is expended, until the city council shall have provided the means of paying the same. Section 4, chapter 3 of the City Ordinances, and section 4, ordinances relating to the duties of the city auditor, approved January 7, 1890.

The power of towns to raise and appropriate money is derived solely from statutory provisions, which restrict the power to certain specified objects and other necessary charges.

Votes to raise or pay money for purposes other than those prescribed by statute are void, and towns cannot be compelled, and generally will not be permitted, to carry such votes into effect.

It is not left to the unrestricted and irresponsible discretion of towns to vote gifts or to select donees; their charity is a duty defined, commanded, enforced, and regulated, and the objects of it are designated by law.

A majority cannot dispose of the property of a minority in an unlimited manner. *Gove v. Epping*, 41 N. H. 539.

The following parties are authorized by law or ordinance to make expenditures, within the scope of their powers, for their respective departments: For fire department and fire-alarm telegraph, the chief engineer, to be submitted monthly to the

approval of the board of engineers; for police department, mayor and police commission; for police court, police judge; for water-works department, superintendent, subject to the rules of the board of commissioners and ordinances relating thereto; for city farm, superintendent; for overseers of the poor, each overseer, subject to the rules of the board of overseers, and their monthly review and approval; for schools, superintendent, or such person as the board of school committee may designate, bills to be approved by the board monthly; for streets, sewers, and other work under these departments, street and park commissioners; for city clerk's office, treasurer's office, tax collector's office, assessor's office, auditor's office, incidental expenditures, city physician, city messenger, city solicitor, city engineer,—mayor; for cemeteries, superintendents, subject to board of trustees (to consist of citizens not members of the city councils); for health department, board of health, subject to approval of mayor; city library, board of trustees or person designated by them. It may be stated as a general rule, that all subordinate officials are under the supervision and control of the mayor, subject to such limitations and restrictions as the board of aldermen, acting as a board, may require.

RESOLUTIONS, ORDERS, ORDI-  
NANCES.



# RESOLUTIONS, ORDERS, ORDINANCES

## PASSED IN 1896.

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### CITY OF MANCHESTER.

RESOLUTION for the appointment of a Special Committee to consider the revision of Chapter 6 of the Ordinances.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That a joint special committee consisting of two aldermen and three councilmen be appointed to take into consideration the revision of chapter 6 of the ordinances of the city of Manchester.

Passed March 3, 1896.

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### CITY OF MANCHESTER.

RESOLUTION for a Police Patrol System.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the mayor and board of police commissioners be authorized to contract for and put in a police patrol system for said city of Manchester, at an expense not exceeding six thousand dollars; the same to be paid for out of the appropriation for the police commission, and that a joint committee of five, consisting of two aldermen and three councilmen, be appointed to act in conjunction with mayor and police commissioners in the matter.

Passed March 3, 1896.

## CITY OF MANCHESTER.

RESOLUTION providing for a Loan of One Hundred Thousand Dollars.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That whereas the Second National Bank of Manchester, N. H., now holds a note of the city of Manchester for one hundred thousand dollars (\$100,000), which will be due and payable the first day of April next, that the mayor and joint standing committee on finance be hereby authorized to issue for and in the name of the city a new note in payment of said note for a term of two years from date; and that said committee shall advertise for proposals to accept said note, and that the same be awarded to the party agreeing to accept said note and to furnish the money therefor at the lowest rate of interest, upon the same terms and conditions under which said former note was executed.

Passed March 3, 1896.

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CITY OF MANCHESTER.

RESOLUTION exempting from taxation the Worrall Clutch Works.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That whereas the Worrall Clutch Works, a corporation duly established under the laws of the state of New Hampshire, proposes to erect and put in operation in said city of Manchester an establishment for the purpose of manufacturing, selling, disposing of, and dealing in friction clutches and patentable machinery of a similar character, and represents that the capital to be used in operating same, including plant, is now twenty-five thousand dollars,

*Therefore, resolved* that said establishment, and the capital as now or hereafter fixed to be used in operating same, be, and the same are, hereby exempt from taxation for a term of ten years, provided that any building erected by said corporation for its purposes shall be built of brick.

Passed March 3, 1896.

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#### CITY OF MANCHESTER.

RESOLUTION providing for a Semi-Centennial Celebration of the Inauguration of the City Government.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the semi-centennial anniversary of the inauguration of the city government of the city of Manchester be celebrated upon such days of the second week in September as the special committee upon semi-centennial celebration shall determine, and that the full charge of the arrangements for said celebration be placed in the hands of the special committee heretofore appointed by the city councils, to which committee shall be added, to act conjointly with them, the following-named citizens:

Frederick Smyth, Moody Currier, P. C. Cheney, Isaac W. Smith, Charles H. Bartlett, Alpheus Gay, George H. Stearns, David B. Varney, E. J. Knowlton, Byron Worthen, C. A. Sulloway, James F. Briggs, H. W. Blair, David Cross, E. M. Topliff, David P. Perkins, Joseph W. Fellows, N. P. Hunt, Henry E. Burnham, Isaac L. Heath, Lewis W. Clark, John C. Bickford, William H. Elliott, John B. Varick, William H. Plumer, John Mooar, J. Hodge, Otis Barton, George H. Hubbard, A. G. Fairbanks, Warren Harvey, William Boyd, Joseph L. Stevens, Orrin E. Kimball, Bushrod W. Hill, George C. Gilmore, Andrew Bunton, John C. French, Andrew C. Wallace, George S.

Holmes, George H. Tanswell, George Holbrook, Thomas Corcoran, Walter Neal, M. Prout, S. D. Quint, Thomas L. Quimby, A. H. Daniels, William B. Patten, H. W. Herrick, David Perkins, Ignatius T. Webster, A. J. Lane, William C. Knowlton, William S. Locke, E. K. Rowell, Joseph Kidder, P. Kean, James E. Bailey, Israel Dow, Charles L. Richardson, George A. Clark, Eben T. James, C. C. Webster, Patrick Harrington, Reed P. Silver, John S. Kidder, Edward Wagner, John E. Stearns, Daniel Connor, David H. Young, Daniel F. Straw, G. W. O. Tebbetts, Frank Dowst, George W. Dodge, Z. F. Campbell, John B. Hall, William T. Stevens, H. N. Hall, Lawrence Dowd, John F. Chase, Allen N. Clapp, Horatio Fradd, C. H. Hutchinson, William Starr, Emil Custer, O. D. Abbott, John Ferguson, W. M. Parsons, E. P. Richardson, Walter Cody, N. S. Clark, Charles Chase, Clarence M. Edgerly, Charles Williams, D. M. Poore, Joseph Quirin, George F. Elliot, George Bisco, Josiah S. Shannon, J. Q. A. Eager, Horace Pettee, Frederick C. Dow, C. W. Clement, John B. Prescott, Joseph Ferren, Stephen Piper, Clark Hadley, J. E. Bernier, L. W. Colby, N. S. Bean, J. A. V. Smith, William E. Moore, Gilman Clough, Charles D. Welch, Charles K. Walker, S. A. Felton, John N. Bruce, Francis B. Eaton, George A. Leighton, Joseph R. Weston, L. B. Bodwell, Frank P. Kimball, Henry B. Fairbanks, Frank Preston, Edward M. Slayton, Roger G. Sullivan, John Hayes, John Dowst, Samuel H. Mead, Frank W. Fitts, S. C. Gould, Josiah G. Dearborn, John C. Ray, J. B. Estey, George W. Weeks, Thomas P. Badger, John A. McCrillis, Samuel Thompson, L. A. Biron, Gustav Langer, Herman F. Straw, C. D. McDuffie, S. N. Bourne, George F. Whitten, Frank P. Carpenter, A. P. Olzendam, Thomas Walker, Jr., F. A. Hoyt, George P. Crafts, N. W. Kimball, L. H. Josselyn, Aretas Blood, G. Byron Chandler, Walter M. Parker, Charles T. Means, Henry M. Putney, E. J. Burnham, William Corey, Thomas W. Lane, Alonzo Elliott, Josiah Carpenter, William N. Johnson, Edward W. Harrington, James F. Cavanaugh, C. L. Harmon, William E. Buck,



Tom W. Robinson, Charles C. Hayes, Charles W. Farmer, William J. Hoyt, Charles E. Stearns, Dennis F. O'Connor, Charles W. Bailey, Daniel F. Healy, Edmond Pinard, Henry F. Lindquist, Michael J. Healy, William Marcotte, James Spence, Perry H. Dow, C. M. Floyd, Walter M. Fulton, F. W. Leeman, J. H. Riedell, Herbert W. Eastman, G. I. Hopkins, Frank S. Sutcliffe, William H. Huse, Harry I. Dodge, J. Frank Baldwin, D. S. Kimball, Joel Daniels, J. J. Abbott, Edwin F. Jones, F. N. Cheney, James E. Dodge, John P. Mullen, Henri Gazaille, George Blanchet, G. M. L. Lane, H. I. Faucher, A. E. Boisvert, Freeman Higgins, H. P. Simpson, William Weber, George W. Dearborn, Rufus Wilkinson, George S. Eastman, Henry A. Farrington, Walter G. Africa, A. A. Ainsworth, E. R. Coburn, Alonzo Day, Frank P. Colby, George F. Bosher, W. F. Hubbard, John K. McQuesten, C. Albert Nordstrom, George O. Sorenson, Charles Nelgy, Frederick Scheer, George L. Woods. Mrs. Aretas Blood, Mrs. David Cross, Mrs. Olive Rand Clarke, Mrs. Lucinda L. Farmer, Mrs. Mary Marshall James, Mrs. Helen Kinsley Dunlap, Mrs. Emma A. H. Piper, Mrs. Amanda W. Smith, Miss Betsey B. Shepard, Mrs. Angeline B. Cilley, Mrs. George W. Weeks, Mrs. C. E. Cox, Elizabeth B. Stark, Mrs. Arthur E. Clarke, Mrs. Joseph W. Fellows, Mrs. Charles B. Bradley, Mrs. Charles E. Balch, Sarah J. Green, Elizabeth McDougall, Mrs. C. W. Wallace, Mrs. John B. Varick, Mrs. H. P. Priest, Mrs. H. W. Blair, Mrs. W. K. Robbins, Nancy S. Bunton, Mrs. Charles K. Walker, Mrs. E. W. Brigham, Miss Isabella G. Mack, Mrs. George H. Walker, Mrs. H. Wilbur Sargent, Mrs. Luther S. Proctor, Mrs. A. S. Lamb, Mrs. O. D. Knox, Mrs. A. P. Tasker, Mrs. John Robertson.

The expense of said celebration to be charged to the appropriation for semi-centennial celebration and not to exceed the sum of two thousand dollars (\$2,000), and the bills for the same shall be approved by the mayor.

Passed March 3, 1896.

## CITY OF MANCHESTER.

RESOLUTION appropriating One Hundred and Thirty Thousand Dollars for the Erection of a new Steel Bridge on Granite street, and providing for the issue of bonds for said amount.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of erecting and completing a steel bridge, sixty feet in width, across the Merrimack river on Granite street, to replace the structure recently carried away by flood, there be, and hereby is, appropriated the sum of one hundred and thirty thousand dollars (\$130,000), and that said sum of one hundred and thirty thousand dollars (\$130,000), or so much thereof as may be necessary, be obtained by the issue of the bonds of the city of Manchester. Said bonds shall bear date of July 1, 1896, and shall be payable as follows: \$25,000, July 1, 1897; \$25,000, July 1, 1898; \$25,000, July 1, 1899; \$25,000, July 1, 1900; \$30,000, July 1, 1901; and bear interest at four (4) per cent per annum, payable semi-annually on the first days of July and January of each year. Said bonds to be in denominations of \$1000 each, and bear coupons for the semi-annual payments of interest as aforesaid; said bonds shall be payable to the bearer, shall be signed by the mayor and countersigned by the city treasurer with the seal of the city affixed thereto, and the coupons shall bear the facsimile signature of the city treasurer.

The fixing of the place of payment and the sale of said bonds is hereby delegated to the city treasurer, he to act under the direction of the mayor and joint standing committee on finance. Said bonds to be sold to the highest bidder upon proposals for the purchase of the same issued by the city treasurer under direction as aforesaid, and said bonds shall be issued as the money shall be needed for the work; and the city councils shall annually appropriate sufficient money to pay the

interest of said bonds and the amount of the principal as the same shall come due each year until the final payment.

These bonds to be issued by virtue of the "municipal bonds act," 1895, passed by the legislature of the state of New Hampshire.

Passed April 27, 1896.

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CITY OF MANCHESTER.

RESOLUTION making a Temporary Loan of One Hundred Thousand Dollars.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of paying such claims against the city as may fall due before the fifth day of December, 1896, the mayor be and hereby is authorized to make a temporary loan for the use of the city of a sum not exceeding one hundred thousand dollars (\$100,000), being in anticipation of the taxes of the present year; giving for the same the notes of the city signed by the mayor and countersigned by the city treasurer.

Passed April 7, 1896.

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CITY OF MANCHESTER.

RESOLUTION of Thanks to the town of Jaffrey.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the thanks of the city of Manchester be and the same are hereby extended to the town of Jaffrey for the generous gift by said town to the city of the original records of the proprietors of Tyng's township; and

That a copy of this resolution be forwarded to the town of Jaffrey.

Passed April 7, 1896.

## CITY OF MANCHESTER.

RESOLUTION providing for an Addition to Derryfield Park.  
*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That all the land now owned by the city of Manchester to the north of Derryfield Park as at present established, said land being the same purchased from the Amoskeag Manufacturing Company by its deed dated November 1, 1893, and from the heirs of the late John J. Bell by deeds dated the first day of March, 1894, with the exception and expressly reserving that part of said land now occupied by the high pressure reservoir, and the land surrounding said reservoir and inclosed within the fence as now built, be and the same hereby is laid out and established as a part of and addition to said Derryfield park, and said land shall be occupied as a park, and is hereby placed under the control of the board of street and park commissioners; but the part which is excepted as above is hereby left in the care of the board of water commissioners, and shall be managed and controlled subject to such rules and regulations as they from time to time see fit to make.

Passed May 5, 1896.

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CITY OF MANCHESTER.

RESOLUTION relating to the Weston Observatory.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

WHEREAS, by the provisions of the will of the late Ex-Gov. James A. Weston the sum of five thousand dollars (\$5,000) was bequeathed to the city of Manchester for the purpose of erecting upon the summit of Oak hill an observatory to be known as the "Weston Observatory," on condition that the

said summit of Oak hill be made a park or a part of a public park by the city of Manchester; and, whereas, said land has been laid out and established as a part of Derryfield park, be it

*Resolved*, that a committee consisting of the mayor, one alderman, to be named by the mayor, the president of the common council, one councilman, to be named by the president of the common council, the chairman of the board of street and park commissioners, and five citizens to be named by the mayor, be appointed for the purpose of building such observatory, as soon as said bequest shall be paid to the city treasurer, and said committee are hereby given full power to do anything and everything necessary to carry into effect the full meaning and intent of this vote; all the expenses incurred by said committee to be paid out of said bequest, and said observatory, when the same shall be completed, shall then be turned over to the board of street and park commissioners, to be maintained in accordance with such rules and regulations as said board shall prescribe.

Passed May 5, 1896.

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CITY OF MANCHESTER.

RESOLUTION relating to Building Regulations for the City of Manchester.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That a special committee consisting of His Honor the Mayor, one alderman, one member of the common council, and three citizens to be appointed by the mayor, be directed to draw up a set of building regulations for the city of Manchester, and report at the next meeting of the city government.

Passed May 5, 1896.

## CITY OF MANCHESTER.

RESOLUTION transferring Money and appropriating Twenty Thousand Dollars for a New Schoolhouse.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of erecting a new eight-room school building upon the lot of land owned by the city in West Manchester, situated on the corner of South Main, A, and Bowman streets, there be appropriated the sum of twenty thousand dollars (\$20,000), the same to be known as "the special appropriation for new West Manchester schoolhouse."

*Resolved, further*, that the appropriation heretofore made for the purchase of additional land for Derryfield park of eight thousand dollars (\$8,000) be and hereby is transferred to this special appropriation for new West Manchester schoolhouse;

*Resolved, further*, that ten thousand dollars (\$10,000) be transferred from the appropriation heretofore made for reserve fund to said appropriation for new West Manchester schoolhouse;

*Resolved, further*, that two thousand dollars (\$2,000) be transferred from the appropriation heretofore made for incidental expenses to the said appropriation for new West Manchester schoolhouse;

*Resolved, further*, that the amount of money realized from the sale of the School-street lot heretofore ordered by the city councils, when the same shall be received be appropriated as follows: Two Thousand dollars (\$2,000) for incidental expenses, and the balance for reserve fund.

Passed May 5, 1896.



## CITY OF MANCHESTER.

RESOLUTION for the appropriation of \$40,000 to complete and equip the new High School Building, and for the issuance of Bonds for the same Amount.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the sum of forty thousand dollars (\$40,000) be and the same is hereby appropriated for the purpose of completing and equipping the new high school building, now in process of erection, and that said sum of forty thousand dollars (\$40,000), or so much thereof as may be necessary, be raised by the issue of bonds of said city of Manchester, said bonds to be dated July 1, 1896, and payable to bearer upon the first day of July, 1916.

Said bonds to bear the city seal, to be signed by the mayor and countersigned by the city treasurer, and to bear interest at the rate of four (4) per cent per annum from date, and to have coupons attached bearing the facsimile signature of the city treasurer, for the payment of interest at said rate, semi-annually, on the first days of January and July of each year, and the city treasurer is authorized to fix the place of payment of interest and principal of said bonds, and under the instructions of the mayor and joint standing committee on finance is authorized to sell said bonds as the money shall be needed, and do all things necessary and proper to complete and carry into effect the issue of said bonds.

Said bonds to be issued in accordance with an act of the legislature of New Hampshire, passed at the January session, 1895, entitled, "An act to authorize municipal corporations to issue bonds." And that, for the purpose of paying the interest and principal, as it shall become due, of the said bonds, there shall annually be raised by the city councils, in the years 1897 to 1916 inclusive, such sum of money as shall be sufficient to meet the interest upon the bonds each year outstanding; and a further sum of two thousand dollars (\$2,000), each

year, for a sinking fund for the payment of the principal of said bonds as it shall become due, the same to be turned over to the board of sinking fund commissioners, created by ordinance of November 17, 1893, and applied to the payment of said bonds.

This resolution shall take effect upon its passage.

Passed July 14, 1896.

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CITY OF MANCHESTER.

RESOLUTION transferring certain Money.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the city clerk be and is hereby authorized to make the following transfer:

From the appropriation for the repairs of highways to the appropriation for snow and ice, nine hundred and forty-one and eighty-four one hundredths dollars (\$941.84).

Passed July 7, 1896.

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CITY OF MANCHESTER.

RESOLUTION appropriating Twelve Thousand Dollars (\$12,000) for the purchase of Land in Ward Eight.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of purchasing a tract of land to be established as a public common in ward 8, there be appropriated the sum of twelve thousand dollars (\$12,000), and that said sum of money be obtained by the issuing of



the promissory notes of the city of Manchester, said notes to be dated the same day as the date of the deed from the owner of said land to the city, and to be payable to the order of the maker of said deed on July 1, 1897, and to bear no interest before said July 1, 1897, and to be signed by the city treasurer and countersigned by the mayor, and the mayor and city treasurer are authorized to do all things necessary to issue said notes.

Passed September 1, 1896.

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CITY OF MANCHESTER.

RESOLUTION for the issue of \$100,000 of Bonds to refund the \$100,000 of Water-Works Bonds coming due January 1, 1897.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That for the purpose of obtaining one hundred thousand dollars (\$100,000), with which to pay the one hundred thousand dollars (\$100,000) of water-works bonds now outstanding, bearing six (6) per cent interest, which come due January 1, 1897, there be issued the bonds of the city of Manchester to the amount of one hundred thousand dollars (\$100,000), said bonds to be dated January 1, 1897, and payable to bearer twenty (20) years from the date thereof.

Said bonds to bear the city seal; to be signed by the mayor and countersigned by the city treasurer, and to bear interest at the rate of four (4) per cent per annum from date, and to have coupons attached bearing the facsimile signature of the city treasurer, for the payment of interest at said rate, semi-annually, on the first days of January and July of each year; and the city treasurer is authorized to fix the place of payment of interest and principal of said bonds, and under the instructions of the mayor and joint standing committee on finance,

is authorized to sell said bonds, as the money shall be needed, and do all things necessary and proper to complete and carry into effect the issue of said bonds.

Said bonds to be issued in accordance with an act of the legislature of New Hampshire, passed at the January session, 1895, entitled, "An act to authorize municipal corporations to issue bonds."

This resolution shall take effect upon its passage.

*Resolved, further*, that, for the purpose of paying the interest and principal of said bonds, as the same shall become due, there shall be annually raised by tax by the city councils, in the years 1897 to 1916, inclusive, such sum of money as shall be sufficient to meet the interest upon the bonds each year outstanding; and a further sum of five thousand dollars (\$5,000) each year, for a sinking fund for the payment of the principal of said bonds, as it shall become due, until a sufficient sinking fund has been so raised, the same to be turned over to the board of sinking fund commissioners, created by ordinance of November 17, 1893, and applied to the payment of said bonds.

Passed November 10, 1896.

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CITY OF MANCHESTER.

RESOLUTION accepting the Bequest of the late James A. Weston.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the bequest of five thousand dollars (\$5,000) to the city of Manchester, contained in the will of the Hon. James A. Weston, for the purpose of erecting an observatory on the summit of Oak Hill, be and hereby is accepted, and that a special committee consisting of the mayor, one alderman, and

one member of the common council be appointed to consult with the representatives of the estate of Mr. Weston, and to consider what further steps it is necessary for the city to take in order to receive the full benefit of said bequest, and to make a report to the city councils, with recommendations, as soon as may be.

Passed March 3, 1896.

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CITY OF MANCHESTER.

RESOLUTION relating to the Deposit of Sylvanus B. Putnam, late City Treasurer.

*Resolved* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the deposit in the National Bank of the Commonwealth of Manchester, N. H., standing in the name of Sylvanus B. Putnam, city treasurer, amounting to twenty-three hundred and forty-four and sixty-eight one hundredths dollars (\$2,344.68) be accepted by the city of Manchester at its face, and that the estate and bondsmen of said Sylvanus B. Putnam be hereby discharged from any claim upon the part of the city for any part of said sum.

Passed March 3, 1896.

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CITY OF MANCHESTER.

AN ORDER to establish the Grade of Salmon Street from Walnut to Beech street.

*Ordered*, If the Board of Mayor and Aldermen concur: That the grade of Salmon street, from Walnut to Beech, be and is hereby established as follows:

The southeast corner of Walnut and Salmon streets shall be

elevation 167.60; thence easterly, on the south side of Salmon street, at 50 feet east of Walnut, the grade to be 169.75; at 100 feet east of Walnut the grade to be 172.80; at 120 feet east of Walnut the grade to be 173.85; at 170 feet east of Walnut the grade to be 176.10; at 220 feet east of Walnut the grade to be 177.40,—the last station being on the west line of Beech street. The grade on the north side of said Salmon street to be parallel to and 0.60 feet lower than the south side of said street.

Reference being made to the plan and profile of Salmon street, on file in the city engineer's department.

Passed January 7, 1896.

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CITY OF MANCHESTER.

AN ORDER to build Wentworth Street to Grade.

*Ordered*, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build Wentworth street, thence southerly to a stake at the southerly end of said street, to land of the late Charles Harvell, and the expense thereof to be charged to the appropriation for new streets.

Passed January 7, 1896.

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CITY OF MANCHESTER.

AN ORDER to build Certain Sewers.

*Ordered*, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build certain sewers, as follows:

In Hevey east back street, from Amory street to Wayne street; in Auburn south back street, from Wilson street to 150 feet east of Hall; in Belmont street, from Mead to Bridge

street; in Spruce street, from Canton street easterly 250 feet; and the expenses thereof to be charged to the appropriation for new sewers.

Passed January 7, 1896.

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CITY OF MANCHESTER.

AN ORDER to erect a small building for storing Gasoline and Supplies at Goffe's Falls.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lands and buildings be and hereby are authorized to erect a small building at Goffe's Falls, for the purpose of storing gasoline and other supplies to light the street lamps in the district of Goffe's Falls. The cost not to exceed seventy-five dollars (\$75), and the same to be charged to the appropriation for lighting streets.

Passed January 7, 1896.

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CITY OF MANCHESTER.

AN ORDER to erect Certain Electric Lights in the City Proper, and some new Lanterns with Gasoline Attachments in the District of Goffe's Falls.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lighting streets be and are hereby authorized to erect the following electric lights:

Corner of Hall and Belmont streets; corner of Charles and Bridge streets; corner of Wilson and Auburn streets; corner of Union and Silver streets; corner of Beech and Green streets; corner of Valley and Union streets; on Cedar street, 150 feet west of Maple street; on Wilkins street near the Mast road; corner of Mast and D streets.

And also the purchase and to erect 15 new copper top lanterns, with plate burners and fixtures attached for gasoline, with all the apparatus necessary at the district in Goffe's Falls, and the furnishing the supplies necessary to supply and light the same, and the expense thereof to be charged to the appropriation for lighting streets.

Passed January 7, 1896.

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CITY OF MANCHESTER.

AN ORDER to appropriate Money for a New School Building.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on finance be and are hereby instructed to appropriate money for an eight-room school building to be located in West Manchester.

Passed February 4, 1896.

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CITY OF MANCHESTER.

AN ORDER in regard to the Lands and Buildings Committee visiting Schoolhouses in the vicinity of Boston.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lands and buildings be authorized to visit such schoolhouses in the vicinity of Boston as they shall deem expedient; the expense of the same not to exceed \$50, and to be charged to the appropriation for incidental expenses.

Passed February 4, 1896.

## CITY OF MANCHESTER.

AN ORDER to print the Fiftieth Annual Report of the Receipts and Expenditures of the City of Manchester.

*Ordered*, If the Board of Mayor and Aldermen concur: That the joint standing committee on finance be, and they hereby are, authorized to procure for the use of the inhabitants of said city, the printing of the fiftieth annual report of the receipts and expenditures of the city of Manchester, including the reports of the joint standing committee on finance, the city auditor, the school board and superintendent of schools, superintendent of water-works, water commissioners, engineer of fire department, police commissioners, overseers of the poor, trustees, librarian, and treasurer of the city library, committee on cemeteries, joint standing committee on city farm, city physician, city solicitor, city engineer, street and park commissioners, and such other matters relating to city affairs as said finance committee may direct, the expense thereof to be charged to the appropriation for printing and stationery.

Passed February 4, 1896.

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CITY OF MANCHESTER.

AN ORDER to purchase Three Horses for use in the Fire Department.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be authorized to purchase three horses for use in fire department, the expense thereof to be charged to the appropriation for fire department.

Passed February 4, 1896.



## CITY OF MANCHESTER.

AN ORDER to pay Election Officers in Ward Three.

*Ordered*, If the Board of Mayor and Aldermen concur: That the bill for services of ward officers at the special election, December 27, 1895, in ward 3, be paid and charged to incidental expenses.

Passed March 3, 1896.

---

## CITY OF MANCHESTER.

AN ORDER to purchase Horses for use in the Fire Department.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be authorized to purchase three horses for use in the fire department, the expense thereof to be charged to the appropriation for fire department.

Passed March 3, 1896.

---

## CITY OF MANCHESTER.

AN ORDER to sell Steel Safe.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lands and buildings be and are hereby authorized to sell steel safe stored in city treasurer's office.

Passed March 3, 1896.

---

## CITY OF MANCHESTER.

AN ORDER authorizing the Committee on Setting Trees to expend \$200 for Trees.

*Ordered*, If the Board of Mayor and Aldermen concur: That



the committee on setting trees be authorized to expend \$200 for shade trees, the expense thereof to be charged to the appropriation for incidental expenses.

Passed April 7, 1896.

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CITY OF MANCHESTER.

AN ORDER for the procuring of Plans and Estimates for a new School Building in West Manchester.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and the joint standing committee on lands and buildings be and they are hereby authorized to obtain plans and estimates for building, completing, and equipping an eight-room school building, to be located on the lot of land owned by the city of Manchester, on South Main street.

Passed April 7, 1896.

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CITY OF MANCHESTER.

AN ORDER relating to the Proprietors' Records of Tyng's Township.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor be and he hereby is authorized to pay all expenses connected with the obtaining the original records of the proprietors of Tyng's township from the town of Jaffrey, and the making of a copy of that portion of said records relating to the territory now embraced in the town of Jaffrey, the said expense in all not to exceed the sum of one hundred dollars (\$100), and to be charged to the appropriation for incidental expenses.

Passed April 7, 1896.

## CITY OF MANCHESTER.

AN ORDER for the establishment of a Police Telegraph and Patrol System.

*Ordered*, If the Board of Mayor and Aldermen concur: That the city of Manchester purchase and install a police telegraph and patrol system.

*Ordered, further*, that the kind of system to be used, the number of boxes, and all other matters necessary to the establishment of the system, except the erection of a stable, be determined by a special committee consisting of the mayor, the board of police commissioners, and the joint committee of the city councils heretofore appointed.

*Ordered, further*, that said special committee be authorized to take all steps and do all things necessary to the establishment of said system, the expense of the same not to exceed the sum of \$7,500, and to be charged to the special appropriation for patrol system, stable, and equipments.

*Ordered, further*, that the mayor and the joint standing committee on lands and buildings be and are hereby authorized and instructed to erect upon the lot of land owned by the city, east of and adjoining the lot upon which the police station stands, on the corner of Manchester and Chestnut streets, a stable to be used in connection with the said police patrol system, the expense of the same not to exceed the sum of \$2,500, and be charged to the special appropriation patrol system, stable, and equipments.

*Ordered, further*, that the board of street and park commissioners be instructed to notify all corporations maintaining in the highways of the city poles for the support of wires, to provide for the use of the topmost arms of said poles for the wires of said police telegraph.

Passed April 7, 1896.

## CITY OF MANCHESTER.

AN ORDER for the erection of a Steel Bridge across the Merrimack River, on Granite Street.

*Ordered*, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be authorized and instructed to build across the Merrimack river, on Granite street, to replace the bridge recently carried away by flood, a steel bridge; the same to be sixty feet in width, and of the grade of Granite street at the time of building the same; at an expense not exceeding one hundred and thirty thousand dollars (\$130,000), and said board are empowered to do everything necessary and proper to complete the same, the expense of the same to be charged to the appropriation for the erection of a new steel bridge on Granite street, heretofore made.

Passed April 27, 1896.

---

## CITY OF MANCHESTER.

AN ORDER to build an Eight-Room Schoolhouse in West Manchester.

*Ordered*, If the Board of Common Council concur: That the mayor and joint standing committee on lands and buildings be and they are hereby authorized and instructed to build a new eight-room schoolhouse upon the lot of land owned by the city in West Manchester, situated at the corner of South Main, A, and Bowman streets, and to complete and equip at least four school rooms and a teacher's room in the same building, at an expense not exceeding twenty thousand dollars (\$20,000); the same to be charged to the appropriation for new West Manchester schoolhouse, and said mayor and joint standing committee are authorized to do any and every thing necessary to complete said building.

Passed May 5, 1896.

## CITY OF MANCHESTER.

## AN ORDER relating to restrictions upon the North Main-Street School.

*Ordered*, If the Board of Mayor and Aldermen concur: That whereas, by mistake, the Amoskeag Manufacturing Co. did release the conditions, limitations, and restrictions upon the lot of land upon which the North Main-street school stands, in West Manchester, it being the lot upon School street upon which the restrictions should have been released, now the city of Manchester hereby releases the said manufacturing company from all effect of the said release of said conditions upon said North Main-street lot, and the mayor is hereby authorized and directed to execute a release in such form and manner, for and in the name of the city, as may be necessary.

Passed May 26, 1896.

---

## CITY OF MANCHESTER.

## AN ORDER to build Carpenter Street.

*Ordered*, If the Board of Mayor and Aldermen concur: That the board of street and park commissioners be and are hereby authorized to build Carpenter street from Elm to Union street according to the grade already established of said street, and the expense of the same be charged to the appropriation for new streets.

Passed June 19, 1896.

---

## CITY OF MANCHESTER.

## AN ORDER to Macadamize Chestnut Street, from Lake Avenue to Valley Cemetery.

*Ordered*, If the Board of Mayor and Aldermen concur: That the street and park commissioners be authorized to macadamize Chestnut street, from Lake avenue to Valley cemetery,

the expense thereof to be charged to the unexpended balance now in the appropriation for macadamizing Central street east from Maple.

Passed July 14, 1896.

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CITY OF MANCHESTER.

AN ORDER to purchase Horses for use in Fire Department.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on fire department be authorized to purchase four horses for use in the fire department, the expense thereof to be charged to the appropriation for fire department.

Passed July 14, 1896.

---

CITY OF MANCHESTER.

AN ORDER for the Transfer of Money.

*Ordered*, If the Board of Mayor and Aldermen concur: That the city clerk be and hereby is authorized to make a transfer of one thousand dollars (\$1,000) from the special appropriation for public bathhouses to the appropriation for city hall; and fifteen hundred dollars (\$1,500) from the special appropriation for public bathhouses to the appropriation for incidental expenses.

Passed August 4, 1896.

---

CITY OF MANCHESTER.

AN ORDER for the apportionment of the Appropriation for Militia Armories.

*Ordered*, If the Board of Mayor and Aldermen concur: That the eight hundred dollars (\$800) appropriated for militia armories be apportioned as follows:

\$100 to band, First Regiment N. H. N. G.  
\$100 to Co. C, First Regiment N. H. N. G.  
\$100 to Co. F, First Regiment N. H. N. G.  
\$100 to Co. H, First Regiment N. H. N. G.  
\$100 to Co. L, First Regiment N. H. N. G.  
\$100 to Manchester War Veterans.  
\$100 to Amoskeag Veterans.  
\$100 to Manchester Cadets.

Passed August 4, 1896.

---

CITY OF MANCHESTER.

AN ORDER for the Transfer of Money.

*Ordered*, If the Board of Mayor and Aldermen concur: That the city clerk be and hereby is authorized to make the transfer of the unexpended balance of the special appropriation for the Christian brook sewer to the special appropriation for the Valley-street sewer.

Passed August 4, 1896.

---

CITY OF MANCHESTER.

*Ordered*, If the Board of Mayor and Aldermen concur: That the city treasurer be and hereby is authorized to turn over to the treasurer of semi-centennial finance committee, for the purposes of the celebration of the semi-centennial anniversary of the inauguration of the first city government of the city of Manchester, the sum of two thousand dollars (\$2,000), the expense of the same to be charged to the appropriation for semi-centennial, heretofore made; and all bills for said celebration to an amount not exceeding two thousand dollars (\$2,000) shall be approved by the mayor.

Passed August 4, 1896.

## CITY OF MANCHESTER.

AN ORDER to purchase Horses for City Farm.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on city farm be authorized to purchase one pair of horses for use at the city farm, the expense thereof to be charged to the appropriation for city farm; price for the pair not to exceed \$250.

Passed August 4, 1896.

---

## CITY OF MANCHESTER.

AN ORDER for the purchase of Land in Ward Eight.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and the joint standing committee on commons and cemeteries be and they are hereby authorized and instructed to purchase from Edward Wagner the lot of land owned by him, situated in West Manchester and bounded by Hale street, as laid out, and by Schiller, Wheelock, and another unnamed street as proposed (being 850 feet long and 505 feet wide), for a sum not exceeding twelve thousand dollars (\$12,000), the expense of the same to be charged to the appropriation for purchase of land in ward 8. And it is further ordered that said land when so purchased be laid out and established as a public park or common, and be placed in charge and control of the board of street and park commissioners.

Passed September 1, 1896.

---

## CITY OF MANCHESTER.

AN ORDER to Erect and Equip a Drinking Fountain on the West Side of Elm Street, a few feet North of Bridge Street.

*Ordered*, If the Board of Mayor and Aldermen concur: That



the board of street and park commissioners be and are hereby authorized to erect and equip a drinking fountain on the west side of Elm street, a few feet north of Bridge street, with an ice box arrangement for the cooling of the water, at an expense not to exceed three hundred dollars, the expense of the same to be charged to the appropriation for watering streets.

Passed September 1, 1896.

---

CITY OF MANCHESTER.

AN ORDER to Erect Electric Lights in the City of Manchester.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lighting streets be and are hereby authorized to erect the following electric lights:

State street, between Granite street and Olzendam's hosiery mill; corner of Elm and Shasta streets; Amory street, 200 feet west of Montgomery street; between Amherst and Concord streets, in Nutfield lane; corner East High and Hall; corner Arlington and Warren streets.

Passed September 1, 1896.

---

CITY OF MANCHESTER.

AN ORDER authorizing the Sale of the old South Main-Street Schoolhouse.

*Ordered*, If the Board of Common Council concur: That the mayor and joint standing committee on lands and buildings be authorized to sell at public auction or private sale, as may seem best to said committee, the old South Main-street schoolhouse, the proceeds from the sale thereof to be credited to the appropriation for the new South Main-street schoolhouse.

Passed September 1, 1896.



## CITY OF MANCHESTER.

AN ORDER to Establish the Grade of Lake Avenue.

*Ordered*, If the Board of Mayor and Aldermen concur: That the grade of Lake avenue, as shown on plan 1070 of the city engineer's department plans, from J. Hall road to Hanover street, be and is hereby made the established grade of said street.

Passed October 6, 1896.

---

## CITY OF MANCHESTER.

AN ORDER to Erect Five Electric Lights in the City.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and standing committee on lighting streets be and hereby are authorized to erect the following electric lights:

Corner of Elm street and Elm avenue; Merrimack street, between Beacon and Milton streets; A street, between B street and Bowman street; corner North and Walnut streets; Blodget and Union streets; North and Chestnut streets.

Passed October 6, 1896.

---

## CITY OF MANCHESTER.

AN ORDER for the Transfer of Money.

*Ordered*, If the Board of Mayor and Aldermen concur: That for the purpose of paying the bill of the T. A. Lane Co., for materials furnished and labor done at the Wilson school, there be transferred from the appropriation for the reserved fund the sum of four hundred and seventy-one dollars (\$471) to the appropriation for new schoolhouses, and that said bill be charged to said appropriation for new schoolhouses.

Passed November 10, 1896.

## CITY OF MANCHESTER.

AN ORDER to erect Electric Lights in the City of Manchester.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lighting streets be and hereby are authorized to erect the following electric lights:

Corner of Grove and Beech streets; corner of North Elm and Carpenter streets; corner of Vinton and Taylor streets; Elm west back street and Winter Place; Myrtle and Union streets; Dearborn and Taylor streets; Dearborn and Summer streets.

Passed November 10, 1896.

---

## CITY OF MANCHESTER.

AN ORDER authorizing the Sale of the Bakersville Gravel Pit.

*Ordered*, If the Board of Common Council concur: That the mayor and joint standing committee on lands and buildings be authorized and instructed to sell at public auction the city's interest in the acre of land owned by the city on Brown avenue, which was purchased from Mitchell, and has heretofore been used as a gravel pit; and that the mayor be authorized to execute a quit claim deed of the city's interest in said property.

Passed November 6, 1896.

---

## CITY OF MANCHESTER.

AN ORDER to purchase Hose Jackets.

*Ordered*, If the Board of Mayor and Aldermen concur: That ten hose jackets be purchased for use of the fire department, and the expense thereof be charged to fire department.

Passed December 1, 1896.

## CITY OF MANCHESTER.

AN ORDER to erect Electric Lights in the City of Manchester.

*Ordered*, If the Board of Mayor and Aldermen concur: That the mayor and joint standing committee on lighting streets be and hereby are authorized to erect the following electric lights:

On North River road, midway between the present light at the corner of Clarke street and the next light north; corner Hall and Prospect streets; on North Adams street, between Appleton and Clarke streets; north of Ray brook; on Myrtle street, 250 feet west of Hall street; on the hill, midway between the Catholic cemetery on Bedford road; corner North Union street and Whitford street.

Passed December 1, 1896.

## CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

AN ORDINANCE in amendment of Sections 23 and 24 of Chapter 6 of the City Ordinances, in relation to the Duties and Compensation of City Officers.

*Be it ordained* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That section twenty-three of chapter six of the Ordinances be amended by striking out the words, "twenty-five," in the eleventh line of said section, and inserting the word, "seventy-five," in place thereof.

That section 24 of said chapter be amended by striking out the word "fifteen," in the sixth line, and inserting the word "sixty-five" in place thereof; striking out the word "ten," in the

seventh line, and inserting the word "sixty"; striking out the word "ten," in the eighth line, and inserting the word "sixty"; striking out the word "thirty-five," in the ninth line, and inserting the word "eighty-five"; striking out the word "five," in the eleventh line, and inserting the word "fifty-five," and inserting the word "fifty," in the eleventh line, after the word "hundred."

The intent of this ordinance is to increase the pay of all call members of the fire department the sum of fifty dollars per annum, and shall take effect upon January 1, 1896.

Passed to be ordained January 14, 1896.

---

### CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

AN ORDINANCE regulating and licensing Night Lunch Carts.

*Be it ordained* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

The board of mayor and aldermen shall have power to grant licenses, to such persons as they shall deem proper, to carry on the business of selling food or serving lunches from carts or wagons, stationed in public highways in the city of Manchester, in the night time, between the hours of 9 o'clock in the evening and 5 in the morning.

Every person granted such license shall pay for each cart or wagon used by him in such business, the sum of ten dollars per year, and he shall station his cart or wagon in such part of the highway as the board of street and park commissioners shall designate.

Any person who shall carry on such business without first obtaining such license shall be fined for each offense not exceeding twenty dollars.

Any such license may be revoked by said board whenever in their opinion the public good requires.

When special rights are allowed by the committee on licenses, the carts or wagons may go on the streets at such time as the committee may permit.

Passed to be ordained March 3, 1896.

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CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

AN ORDINANCE changing the name of Elm East Back Street.

*Be it ordained* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

That the highway now known as Elm east back street, extending from the Manchester south back street to Lowell street, shall, from and after the passage of this ordinance, be known as Nutfield lane, and this ordinance shall take effect upon its passage.

Passed to be ordained June 2, 1896.

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CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

AN ORDINANCE changing the names of Certain Streets.

*Be it ordained* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

SECTION 1. That the names of certain streets in said city be changed as follows:

That the highway commonly known as Everett-street passage-way, leading from Elm street near Clark to Everett street, be called Waldo street.

SECT. 2. This ordinance shall take effect on its passage.

Passed to be ordained August 4, 1896.

---

### CITY OF MANCHESTER.

IN THE YEAR ONE THOUSAND EIGHT HUNDRED AND NINETY-SIX.

AN ORDINANCE amending Sections 7, 21, and 22, of Chapter 6 of the Ordinances of the City of Manchester.

*Be it ordained* by the Mayor, Aldermen, and Common Council of the City of Manchester, in City Council assembled, as follows:

SECTION 1. Section 7 of chapter 6 of the Ordinances of the city of Manchester is hereby amended by striking out the words "He shall have the care of the city hall buildings, city hall, and the rooms occupied by the city government, or any board or officer thereof, and the committee rooms occupied by them," and inserting in place thereof the words, "He shall be superintendent of the city hall buildings and all rooms therein, and of such rooms in the court-house as are used for city purposes, and of the janitors thereof," so that said section as amended shall read as follows: "The city messenger shall deliver all notices and orders issued by the mayor, the president of the common council, the city clerk, the city councils, or either branch thereof, or by any committee of the same, when so requested. He shall seasonably notify members of all meetings of committees of the city councils, or of either branch thereof, of the board of assessors, overseers of the poor, school committee, and engineer, when requested, and of all special and regular meetings of the city councils, or of either branch thereof. He shall be superintendent of the city hall building and all rooms

therein, and of such rooms in the court-house as are used for city purposes, and of the janitors thereof. He shall at all times perform any duties connected with the building or city government, when requested by the mayor, city council, or any member thereof. He shall receive in full, for all his services, the sum of seven hundred dollars per annum, to be paid in equal monthly payments."

SECT. 2. Section 21 of chapter 6 of the Ordinances of the city of Manchester is hereby amended by striking out the word "five," in the fourth printed line, and the word "ten," in the fifth printed line, and inserting in place thereof the word "fifteen" and the word "twenty," respectively, so that said section as amended shall read as follows: "Section 21. Each of the selectmen of each ward in the city shall receive in full for his services, and for all the duties appertaining to his office, the sum of fifteen dollars, and the ward clerk of each ward the sum of twenty dollars, to be paid at the expiration of his official term."

SECT. 3. Section 22 of chapter 6 of the Ordinances of the city of Manchester is hereby amended by striking out the word "three," in the third printed line, and inserting in place thereof the word "fifteen," and by adding to the end of said section the following words: "And each inspector of elections of each ward shall receive in full for his services, and for all duties appertaining to his office, the sum of ten dollars, to be paid at the expiration of his term of office," so that said section as amended shall read as follows: "Section 22. The moderator of each ward shall receive in full for his services, and for all the duties appertaining to his office, the sum of fifteen dollars, to be paid at the expiration of his official term. And each inspector of elections of each ward shall receive in full for his services, and for all the duties appertaining to his office, the sum of ten dollars, to be paid at the expiration of his term of office."

Passed to be ordained December 1, 1896.





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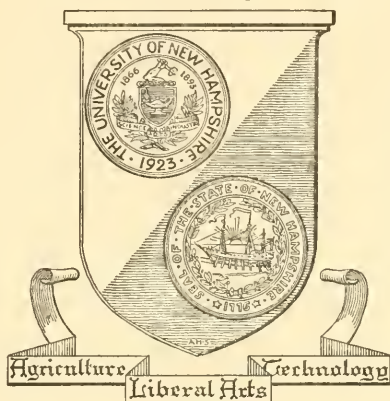








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